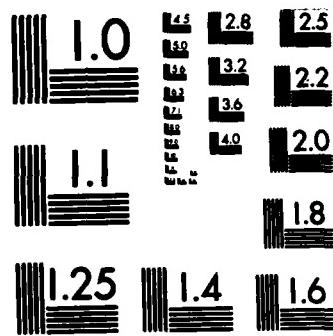


AD-A159 651 PERFORMANCE MONITORING SYSTEM: SUMMARY OF LOCK
STATISTICS FOR OCTOBER-DECEMBER 1984(U) CORPS OF
ENGINEERS FORT BELVOIR VA WATER RESOURCES SUPPORT CE
UNCLASSIFIED M V FLEMING ET AL MAY 85 WRSC-85-SR-2 F/G 13/2 NL

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US Army Corps
of Engineers,
Engineer Institute for
Water Resources

2

AD-A159 651

Performance Monitoring System:

**Summary of
Lock Statistics for
October - December 1984**



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May 1985

**Summary Report 85-SR-2
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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER 85-SR-2	2. GOVT ACCESSION NO. AD-4159 651	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) Performance Monitoring System Summary of Lock Statistics October 1984 - December 1984	5. TYPE OF REPORT & PERIOD COVERED Quarterly Summary Report October 1984 - December 1984	
	6. PERFORMING ORG. REPORT NUMBER	
7. AUTHOR(s) Marilyn V. Fleming and Kevin A. Alexander U.S. Army Corps of Engineers Water Resources Support Center Institute for Water Resources	8. CONTRACT OR GRANT NUMBER(s)	
9. PERFORMING ORGANIZATION NAME AND ADDRESS U.S. Army Corps of Engineers Water Resources Support Center, IWR Casey Building, Ft. Belvoir, VA 22060-5586	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS	
11. CONTROLLING OFFICE NAME AND ADDRESS Office, Chief of Engineers, U.S. Army Corps of Engineers, Pulaski Building, 20 Massachusetts Avenue, N.W., Washington, D. C. 20314-1000	12. REPORT DATE May 1985	
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)	13. NUMBER OF PAGES	
	15. SECURITY CLASS. (of this report) UNCLASSIFIED	
	16a. DECLASSIFICATION/DOWNGRADING SCHEDULE	
16. DISTRIBUTION STATEMENT (of this Report) Approved for Public Release; distribution unlimited.		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES Although the data are edited, the United States Government does not warrant its suitability for all purposes and does not assume responsibility for results of computations performed with these data.		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) lock Performance Monitoring System PMS statistics		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Lock Performance Monitoring data are collected at Corps locks by lock operators from observation and information provided by waterway operators. This quarterly summary is an overview of the collected statistics.		

**PERFORMANCE MONITORING SYSTEM
SUMMARY OF LOCK STATISTICS
OCTOBER 1984 - DECEMBER 1984**

**Navigation Data Management
and Applications Branch
Navigation Division**

**U.S. Army Corps of Engineers
Water Resources Support Center
Institute for Water Resources
Ft. Belvoir, Virginia 22060-5586**



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PREFACE

This report is a product of the Navigation Data Management and Applications Branch of the U. S. Army Engineer Institute for Water Resources (WRSC-IWR). The information is compiled from statistics collected at the Corps locks in support of the lock Performance Monitoring System (PMS).

The study is managed by Mrs. Marilyn V. Fleming under the supervision of Mr. Francis M. Sharp, Chief of the WRSC-IWR Navigation Data Management and Applications Branch, and Dr. Lloyd G. Antle, Chief of the WRSC-IWR Navigation Division. The Office of the Chief of Engineers (OCE) sponsors are Mr. Henry H. Campbell Jr., DAEN-CWO-M, and Mr. Robert M. Daniel, DAEN-CWP-G.

Requests to update or change the distribution, comments and questions can be directed to Frank Sharp (202-355-2240 or FTS 385-2240) or Marilyn Fleming at the same telephone number. The information is produced and distributed quarterly.

James R. Hanchey
JAMES R. HANCHEY
Director, WRSC-IWR

CONTENTS

	Page
Introduction	IX
Appendix A: Performance Monitoring System Quarterly Report	
October through December, 1984	
New Orleans District	A 1
St. Louis District	A 2
Vicksburg District	A 6
New York District	A 8
Norfolk District	A 11
Buffalo District	A 14
Chicago District	A 17
Detroit District	A 18
Rock Island District	A 19
St. Paul District	A 26
Portland District	A 30
Seattle District	A 32
Walla Walla District	A 33
Huntington District	A 36
Louisville District	A 42
Nashville District	A 48
Pittsburgh District	A 54
Jacksonville District	A 63
Mobile District	A 64
Savannah District	A 70
Wilmington District	A 71
Sacramento District	A 74
Galveston District	A 75
Little Rock District	A 78
Tulsa District	A 82
Appendix B: Glossary	

Introduction

The lock Performance Monitoring System (PMS) is a part of the Inland Navigation Systems Analysis (INSA) program and encompasses the collection, editing, maintenance and analysis of data collected at all Corps-owned and operated locks. The data have been collected since March of 1975 and consist of information describing the traffic through the locks as well as the physical aspects of lockages. The quarterly summary of selected statistics presented in the appendix provides an overview of the traffic and operation at each lock. The quarterly report is presented as a set of three tables for each Army Corps District. Information reported for each lock and chamber includes:

Army
Corps District.

Downwards: Locks(Waterways); Water traffic; Barges;
Merchant vessels; Ships; Delay; Total(Days).

TABLE 1. A listing providing the name of the lock, the river on which the lock is and its dimensions. In those cases where there is no quarterly information, this table will be the only display for the district.

TABLE 2. A table providing, by direction and total, the number of tows, commercial vessels other than tows, recreational vessels, barges (empty and loaded), commercial lockages, recreational lockages and tonnage.

TABLE 3. A summary of approach, entry, chambering and exit times (maximum, minimum and average) and the number of delays, total delay time, maximum delay time and average delay time.

Although the summary information will be computed and displayed for chambers at which there is data for only one or two months of the quarter, the fact is noted on the report.

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED
B2	NEW ORLEANS	LOWER MISS VALLEY	10/84 11/84 12/84
RIVER	LCODE-LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)
ATCHAFALAYA RIVER	11-BERWICK LOCK		0307/0045/11.0
BAYOU TECHE	31-KEYSTONE LOCK		0162/0036/12.0
FRESHWATER BAYOU	41-FRESHWATER BAYOU LOCK		0600/0084/15.0
GULF INTRACOASTAL	1-PORT ALLEN LOCK		1198/0084/15.0
	2-BAYOU SORREL LOCK		0800/0056/16.0
	3-INNER HRBR NAVIGATION CANL LK		0646/0075/40.0
	4-ALGIERS LOCK		0797/0075/15.0
	5-HARVEY LOCK		0425/0075/14.0
	6-BAYOU BOEUF LOCK		1158/0075/15.0
	7-VERMILLION LOCK		1200/0056/14.0
	8-CALCASIEU LOCK		1205/0075/15.0
	21-SCHOONER BAYOU CONTROL STRUCT		9999/0075/14.0
	22-CATFISH POINT CONTROL STRUCT		9999/0056/16.0
	23-CALCASIEU SALT WATER BARRIER		9999/0056/15.0
OLD RIVER	51-OLD RIVER LOCK		1200/0075/15.0

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED
B3	ST. LOUIS	LOWER MISS VALLEY	10/84 11/84 12/84
<hr/>			
RIVER	L/CODE-LOCK NAME	LEN/MID/DRAFT (FT/FT/FT)	
KASKASKIA RIVER	1-KASKASKIA RIVER NAVACATION LK	0610/0084/12.0	
MISSISSIPPI RIVER	24-LOCK & DAM 24	0610/0110/12.0	
	25-LOCK & DAM 25	0610/0110/12.0	
	26-LOCK & DAM 26	0610/0110/12.0	
	26-LOCK & DAM 26 AUX 1	0380/0110/12.0	
	27-CHAIN OF ROCKS LOCK & DAM 27	1210/0110/12.0	
	27-CHAIN OF ROCKS LK & DM 27 AX1	0610/0110/12.0	

TABLE 2

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES**

ERIC B3	DISTRICT NAME ST. LOUIS	DIVISION NAME LOWER MISS VALLEY						MONTHS REPORTED						
								10/84			11/84			
RIVER/LOCK NAME	TONS	VESSEL RECRDN	VESSEL OTHER	VESSEL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LOCKGS CARRIER	LCKGES RECRDN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)		
KASKASKIA RIVER														
KASKASKIA RIVER NAVIGATION LK	XXX													
UPBOUND STATISTICS	170	50	56	276	460	246	706	225	48	0	273	186		
DOWNBOUND STATISTICS	174	49	58	281	218	494	702	234	47	0	281	720		
TOTALS	344	99	114	557	678	730	1408	459	95	0	554	907		
MISSISSIPPI RIVER														
LOCK & DAM 24	XXX													
UPBOUND STATISTICS	375	14	51	440	2405	1320	3725	623	14	12	649	2032		
DOWNBOUND STATISTICS	481	40	15	536	338	5218	5556	826	50	15	891	7359		
TOTALS	856	54	66	976	2743	6538	9281	1449	64	27	1540	9391		
LOCK & DAM 25	XXX													
UPBOUND STATISTICS	375	20	95	490	2388	1317	3705	621	16	95	732	2130		
DOWNBOUND STATISTICS	482	63	51	602	353	5229	5582	813	54	105	972	7370		
TOTALS	863	83	146	1092	2741	6546	9287	1434	70	200	1704	9500		
LOCK & DAM 26	XXX													
UPBOUND STATISTICS	579	0	29	608	4960	2501	7461	1099	0	7	1106	3793		
DOWNBOUND STATISTICS	739	2	7	748	617	8906	9523	1402	0	11	1413	12656		
TOTALS	1318	2	36	1356	5577	11407	16984	2501	0	18	2519	16449		
LOCK & DAM 26 AUX 1	XXX													
UPBOUND STATISTICS	384	18	104	506	741	725	1466	734	9	12	755	1314		
DOWNBOUND STATISTICS	367	201	72	640	468	1024	1492	683	109	12	804	1538		
TOTALS	751	219	176	1146	1209	1749	2958	1417	118	24	1559	2852		
CHAIN OF ROCKS LOCK & DAM 27	XXX													
UPBOUND STATISTICS	992	6	186	1184	5725	3386	9111	1036	2	10	1048	5571		
DOWNBOUND STATISTICS	1105	35	122	1262	1131	9806	10937	1106	10	16	1132	14040		
TOTALS	2097	41	308	2446	6856	13192	20048	2142	12	26	2180	19612		

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

ERIC B3	DISTRICT NAME ST. LOUIS	DIVISION NAME LOWER MISS VALLEY						MONTHS REPORTED					
		TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES	LOCKGS CONVER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS) (NAV, OPN, ETC)
MISSISSIPPI RIVER													
CHAIN OF ROCKS LK & DM 27 AX1	XXX												
UPBOUND STATISTICS	240	14	118	372	339	203	542	325	6	20	351	302	
DOWNBOUND STATISTICS	295	160	83	538	389	628	917	363	54	19	436	901	
TOTALS	535	174	201	910	628	831	1459	688	60	39	787	1203	

TABLE 3

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES**

EROC B3	DISTRICT NAME ST. LOUIS	DIVISION NAME LOWER MISS VALLEY	MONTHS REPORTED 10/84	MONTHS REPORTED 11/84	MONTHS REPORTED 12/84							
			ALL TIMES EXPRESSED IN MINUTES									
			LOCK PROCESSING TIME				DELAYED : TOWS	DELAY : TIME	DELAY AVG	DELAY MAX		
	APPROACH	ENTRY	CHAMBER	EXIT			(TOWS)	(TOWS)	(TOWS)	(ALL VSSLs)		
	MIN : MIN	AVG : AVG	MAX : MAX	MIN : MIN	AVG : AVG	MAX : MAX						
KASKASKIA RIVER												
KASKASKIA RIVER NAVIGATION L 1 6 30 1 4 23 5 37 1 4 17 : 17 297 .9 45												
MISSISSIPPI RIVER												
LOCK & DAM 24	1 9 156	1 8 39	4 10 34	1 17 55 :	647	125116	146.2	1398				
LOCK & DAM 25	1 8 79	1 8 46	4 9 66	1 15 421 :	858	313982	363.8	1903				
LOCK & DAM 26	1 3 66	1 9 41	3 12 43	1 10 95 :	1318	763522	579.3	3126				
LOCK & DAM 26 AUX 1	1 6 56	1 7 71	4 12 45	1 9 60 :	747	94847	126.3	2222				
CHAIN OF ROCKS LOCK & DAM 27	1 9 73	1 7 30	4 11 76	1 7 118 :	1686	179175	85.4	1741				
CHAIN OF ROCKS LK & DM 27 AX	1 7 43	1 3 29	5 10 43	1 3 35 :	227	6314	11.8	242				

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC 94	DISTRICT NAME VICKSBURG	DIVISION NAME LOWER MISS VALLEY	MONTHS REPORTED 10/84	MONTHS REPORTED 11/84	MONTHS REPORTED 12/84
RIVER	LCODE-LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)		
OUACHITA/BLACK RIV	1-JONESVILLE LOCK & DAM		0600/0084/23.4		
	2-COLUMBIA LOCK & DAM		0600/0084/27.4		
	6-LOCK & DAM 6		0268/0053/17.4		
	8-LOCK & DAM 8		0268/0053/19.0		
RED RIVER	1-RED RIVER LOCK & DAM #1		0685/0084/ 9.0		

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

TABLE 3

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES**

EROC B4	DISTRICT NAME VICKSBURG	DIVISION NAME LOWER MISS VALLEY	MONTHS REPORTED 10/84	MONTHS REPORTED 11/84	MONTHS REPORTED 12/84											
ALL TIMES EXPRESSED IN MINUTES																
			LOCK PROCESSING TIME				1 : DELAYED	DELAY	DELAY							
	APPROACH	ENTRY	CHAMBER		EXIT		TOWS	TIME	Avg							
	MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX							
	(TOWS)	(TOWS)	(TOWS)							(ALL VSSLS)						

HUDSON RIVER																
JONESVILLE LOCK & DAM	1	6	25	1	5	31	1	12	60	1	7	58 :	34	228	2.8	25
COLUMBIA LOCK & DAM	3	5	8	3	5	10	7	14	40	3	6	23 :				
LOCK & DAM 6	NO DATA RECORDED FOR THIS LOCK															
LOCK & DAM 8	NO DATA RECORDED FOR THIS LOCK															
RED RIVER																
RED RIVER LOCK & DAM #1	NO DATA RECORDED FOR THIS LOCK															

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
E3	NEW YORK	NORTH ATLANTIC	10/84	11/84	12/84
RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)			
HUDSON RIVER	1-TROY LOCK & DAM	0493/0044/15.0			

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC E3	DISTRICT NAME NEW YORK	DIVISION NAME NORTH ATLANTIC						MONTHS REPORTED					
		TONS RECRTN	VESSEL OTHER	VESSEL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LOCKGS COMMER	LOCKGS RECRTN	LOCKGS OTHER	LOCKGS TOTAL	TONNAGE (NAV, DPN, ETC)	12/84
HUDSON RIVER													
TROY LOCK & DAM		XXX											
UPBOUND STATISTICS		56	91	3	150	1	62	63	65	67	25	157	123
DOWNBOUND STATISTICS		66	262	1	329	65	5	70	72	190	24	286	0
TOTALS		122	353	4	479	66	67	133	137	257	49	443	124

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME				MONTHS REPORTED	
E3	NEW YORK	NORTH ATLANTIC	10/84			11/84	12/84
ALL TIMES EXPRESSED IN MINUTES							
		LOCK PROCESSING TIME	:	DELAYED	DELAY	DELAY	DELAY
APPROACH	ENTRY	CHAMBER	EXIT	: TONS	TIME	Avg	MAX
MIN	Avg	MAX	MIN	Avg	MAX	(TONS)	(TONS)
						(ALL VESSES)	

HUDSON RIVER

TROY LOCK & DAM	3	7	18	3	4	10	9	10	14	2	5	10	:	50	336	2.8	25
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TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC E4	DISTRICT NAME NORFOLK	DIVISION NAME NORTH ATLANTIC	MONTHS REPORTED 10/84	MONTHS REPORTED 11/84	MONTHS REPORTED 12/84
RIVER	LCODE-LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)		
ATLANT INTROCOASTAL	11-GREAT BRIDGE GUARD LOCK		0600/0075/16.0		
DISMAL SWAMP	1-DEEP CREEK LOCK 2-SOUTH MILLS LOCK		0300/0052/12.0 0300/0052/12.0		

TABLE 2

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES**

EROC E4	DISTRICT NAME NORFOLK	DIVISION NAME NORTH ATLANTIC						MONTHS REPORTED					
		TOWS	VESSEL RECRTN	VESSEL OTHER	VESSEL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS CARRIER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS) (NAV, OPN, ETC)
ATLANT INTRCOASTAL													
GREAT BRIDGE GUARD LOCK		XXX											
UPBOUND STATISTICS		166	226	67	459	82	122	204	223	137	12	372	136
DOWNBOUND STATISTICS		170	2667	59	2896	125	82	207	228	676	17	921	84
TOTALS		336	2893	126	3355	207	204	411	451	813	29	1293	221
DISMAL SWAMP													
DEEP CREEK LOCK		XXX	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS		0	300	1	301	0	0	0	0	89	0	89	0
DOWNBOUND STATISTICS		0	29	0	29	0	0	0	1	19	0	20	0
TOTALS		0	329	1	330	0	0	0	1	108	0	109	0
SOUTH MILLS LOCK		XXX	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS		0	28	0	28	0	0	0	2	19	0	21	0
DOWNBOUND STATISTICS		0	303	0	303	0	0	0	1	85	1	87	0
TOTALS		0	331	0	331	0	0	0	3	104	1	108	0

TABLE 3

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES**

EROC E4	DISTRICT NAME NORFOLK	DIVISION NAME NORTH ATLANTIC	10/94	MONTHS REPORTED 11/94	12/94												
ALL TIMES EXPRESSED IN MINUTES																	
		LOCK PROCESSING TIME															
APPROACH	ENTRY	CHAMBER	EXIT	: TONS	DELAY												
MIN AVG MAX : MIN AVG MAX : MIN AVG MAX : MIN AVG MAX :	MIN AVG MAX : MIN AVG MAX : MIN AVG MAX : MIN AVG MAX :	MIN AVG MAX : MIN AVG MAX : MIN AVG MAX :	TONS	TIME	Avg												
			(TONS)	(TONS)	MAX												
					(ALL VESLS)												
ATLANT INTRACOASTAL																	
GREAT BRIDGE GUARD LOCK	1	3	10	2	4	10	2	7	45	1	4	56	:	336	1600	4.8	43
DISMAL SWAMP																	
DEEP CREEK LOCK	4	4	5	3	4	5	10	10	20	5	5	35	:	0	0	.0	7
SOUTH MILLS LOCK	2	4	6	3	4	7	10	10	11	3	5	25	:	0	0	.0	120

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/04 THROUGH 12/04
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED
F1	BUFFALO	NORTH CENTRAL	10/04 11/04 12/04
RIVER	LOCK/LOCK NAME		LEN/HLD/DRAFT (FT/FT/FT)
BLK ROCK CH/TONAWANDA	1-BLACK ROCK LOCK		0450/0070/21.7

TABLE 2

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES**

EROC F1	DISTRICT NAME BUFFALO	DIVISION NAME NORTH CENTRAL						MONTHS REPORTED					
					10/84			11/84			12/84		
RIVER/LOCK NAME	TONS	VESSEL RECRTRN	VESSEL OTHER	VESSEL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LOCKGS CARRIER	LCKGSES RECRTRN	LCKGSES OTHER	LCKGSES TOTAL	TONNAGE (KTONS) (NAV, DPN, ETC)	
BLK ROCK CH/TONAWANDA													
BLACK ROCK LOCK	XXX	ONLY FIRST AND SECOND MONTHS REPORTED											
UPBOUND STATISTICS	1	190	20	211	0	1	1	24	94	9	127	7	
DOWNBOUND STATISTICS	15	311	6	332	0	17	17	25	166	14	205	135	
TOTALS	16	501	26	543	0	18	18	49	260	23	332	142	

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME				MONTHS REPORTED		
F1	BUFFALO	NORTH CENTRAL				10/84	11/84	12/84

ALL TIMES EXPRESSED IN MINUTES												
LOCK PROCESSING TIME			:			DELAYED DELAY			DELAY		DELAY	
APPROACH	ENTRY	CHAMBER	EXIT	:	TONS	TIME	Avg	Max	(TOMS)	(TOMS)	(ALL VSSLS)	
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX				

BLK ROCK CH/TOMAHAWKA

BLACK ROCK LOCK	1	1	10	1	1	15	9	11	16	1	1	11	:	0	0	.0	32
-----------------	---	---	----	---	---	----	---	----	----	---	---	----	---	---	---	----	----

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC F2	DISTRICT NAME CHICAGO	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED 10/84	11/84	12/84
RIVER CHICAGO HARBOR	LCODE-LOCK NAME 1-CHICAGO LOCK		LEN/WID/DRAFT (FT/FT/FT) 0600/0080/22.0		

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC F3	DISTRICT NAME DETROIT	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED		
			10/84	11/84	12/84
RIVER FOX RIVER	LCODE-LOCK NAME	LEN/WB/DRAFT (FT/FT/FT)			
			0146/0036/ 6.0		
			0146/0036/ 6.0		
			0146/0036/ 6.0		
			0144/0035/ 6.0		
			0144/0035/ 6.0		
			0144/0031/ 6.0		
			0144/0037/ 6.0		
			0144/0036/ 6.0		
			0147/0035/ 6.0		
			0144/0036/ 6.0		
			0147/0035/ 6.0		
			0144/0035/ 6.0		
			0145/0034/ 6.0		
			0145/0035/ 6.0		
			0144/0035/ 6.0		
			0144/0035/ 6.0		
			0144/0034/ 6.0		
			0066/0018/ 7.0		
			0800/0080/31.0		
			1200/0110/32.0		
			1350/0080/31.0		
			1350/0080/31.0		
THE INLAND ROUTE ST MARYS RIVER	LCODE-LOCK NAME	LEN/WB/DRAFT (FT/FT/FT)			

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED
F4	ROCK ISLAND	NORTH CENTRAL	10/84 11/84 12/84
RIVER	L-CODE-LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)
ILLINOIS	1-THOMAS J O'BRIEN		1000/0110/12.0
	2-LOCKPORT LOCK		0600/0110/12.0
	3-BRANDON ROAD LOCK & DAM		0600/0110/12.0
	4-DRESDEN ISLAND LOCK & DAM		0600/0110/12.0
	5-MARSIELLES LOCK & DAM		0600/0110/12.0
	6-STARVED ROCK LOCK & DAM		0600/0110/12.0
	7-PEORIA LOCK & DAM		0600/0110/12.0
	8-LAGRANGE LOCK & DAM		0600/0110/12.0
MISSISSIPPI RIVER	11-LOCK & DAM 11		0600/0110/10.0
	12-LOCK & DAM 12		0600/0110/10.0
	13-LOCK & DAM 13		0600/0110/10.0
	14-LOCK & DAM 14		0600/0110/10.0
	14-LOCK & DAM 14 AUXILIARY 1		0320/0080/10.0
	15-LOCK & DAM 15		0600/0110/10.0
	15-LOCK & DAM 15 AUXILIARY 1		0360/0110/10.0
	16-LOCK & DAM 16		0600/0110/10.0
	17-LOCK & DAM 17		0600/0110/10.0
	18-LOCK & DAM 18		0600/0110/10.0
	19-LOCK & DAM 19		1200/0110/10.0
	19-LOCK & DAM 19 AUXILIARY 1		1350/0110/10.0
	20-LOCK & DAM 20		0600/0110/10.0
	21-LOCK & DAM 21		0600/0110/10.0
	22-LOCK & DAM 22		0600/0110/10.0

TABLE 2

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES**

EROC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL						MONTHS REPORTED					
								10/84			11/84		
RIVER/LOCK NAME	TONS	VESSEL RECRTN	VESSEL OTHER	VESSEL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS) (NAV, OPN, ETC)	
ILLINOIS													
THOMAS J O'BRIEN	XXX												
UPBOUND STATISTICS	303	185	53	541	336	566	902	351	135	2	488	862	
DOWNBOUND STATISTICS	284	823	60	1167	399	434	833	342	350	4	696	694	
TOTALS	587	1008	113	1708	735	1000	1735	693	485	6	1184	1556	
LOCKPORT LOCK	XXX												
UPBOUND STATISTICS	497	16	56	569	463	2064	2527	560	9	0	569	3087	
DOWNBOUND STATISTICS	508	156	62	726	1586	901	2487	573	63	1	637	1476	
TOTALS	1005	172	118	1295	2049	2965	5014	1133	72	1	1206	4583	
BRANDON ROAD LOCK & DAM	XXX												
UPBOUND STATISTICS	512	15	131	658	539	2045	2584	622	10	1	633	3084	
DOWNBOUND STATISTICS	504	164	131	799	1547	966	2513	620	75	2	697	1583	
TOTALS	1016	179	262	1457	2086	3011	5097	1242	85	3	1330	4668	
DRESDEN ISLAND LOCK & DAM	XXX												
UPBOUND STATISTICS	433	36	33	502	554	2031	2585	564	30	9	603	3132	
DOWNBOUND STATISTICS	451	145	26	622	1476	1124	2600	557	93	7	657	1905	
TOTALS	884	181	59	1124	2030	3155	5185	1121	123	16	1260	5037	
MARSIELLES LOCK & DAM	XXX												
UPBOUND STATISTICS	428	57	36	521	726	1903	2629	581	38	10	629	3032	
DOWNBOUND STATISTICS	440	134	32	606	1267	1416	2683	580	93	11	684	2309	
TOTALS	868	191	68	1127	1993	3319	5312	1161	131	21	1313	5342	
STARVED ROCK LOCK & DAM	XXX												
UPBOUND STATISTICS	453	46	22	523	1029	1947	2976	619	38	3	660	3112	
DOWNBOUND STATISTICS	456	128	21	605	1252	1734	2986	611	101	6	718	2751	
TOTALS	911	174	43	1128	2281	3681	5962	1230	139	9	1378	5864	
PEDRIA LOCK & DAM	XXX												
UPBOUND STATISTICS	490	27	34	551	2031	2264	4295	711	16	72	799	3622	
DOWNBOUND STATISTICS	507	134	16	657	1289	2942	4231	693	97	77	867	4442	
TOTALS	997	161	50	1208	3320	5206	8526	1404	113	149	1666	8065	

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL				MONTHS REPORTED							
						10/84		11/84		12/84			
RIVER/LOCK NAME	TONS	VESSEL RECRNT	VESSEL OTHER	VESSEL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRNT	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS) (NAV, OPN, ETC)	
ILLINOIS													
LAGRANGE LOCK & DAM	XXX												
UPBOUND STATISTICS	472	16	24	512	2825	1858	4683	635	9	137	781	3063	
DOWNBOUND STATISTICS	495	150	12	657	738	3967	4705	589	94	161	844	5833	
TOTALS	967	166	36	1169	3563	5825	9388	1224	103	298	1625	8896	
MISSISSIPPI RIVER													
LOCK & DAM 11	XXX												
UPBOUND STATISTICS	177	83	46	306	941	716	1657	285	77	26	388	1101	
DOWNBOUND STATISTICS	240	112	21	373	127	2553	2680	392	109	27	528	3645	
TOTALS	417	195	67	679	1068	3269	4337	677	186	53	916	4747	
LOCK & DAM 12	XXX												
UPBOUND STATISTICS	193	88	42	323	1053	811	1864	320	59	24	403	1229	
DOWNBOUND STATISTICS	267	120	12	399	134	2876	3010	439	115	24	578	4070	
TOTALS	460	208	54	722	1187	3687	4874	759	174	48	981	5300	
LOCK & DAM 13	XXX												
UPBOUND STATISTICS	195	124	46	345	1064	816	1880	325	66	18	409	1244	
DOWNBOUND STATISTICS	269	174	9	452	136	2896	3032	445	109	21	575	4098	
TOTALS	464	298	55	817	1200	3712	4912	770	175	39	984	5343	
LOCK & DAM 14	XXX												
UPBOUND STATISTICS	300	122	62	464	1468	946	2434	467	65	9	541	1431	
DOWNBOUND STATISTICS	383	172	19	574	181	3346	3727	604	98	14	716	4940	
TOTALS	683	294	81	1038	1669	4492	6161	1071	163	23	1257	6271	
LOCK & DAM 14 AUXILIARY 1	NO DATA RECORDED FOR THIS LOCK												
LOCK & DAM 15	XXX												
UPBOUND STATISTICS	295	5	61	361	1362	987	2349	473	4	12	489	1512	
DOWNBOUND STATISTICS	373	5	27	405	248	3394	3642	634	6	7	647	4779	
TOTALS	668	10	88	766	1610	4381	5991	1107	10	19	1136	6292	

TABLE 2

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES**

EROC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL						MONTHS REPORTED						
								10/84			11/84			
RIVER/LOCK NAME	TONS	VESSEL RECRTN	VESSEL OTHER	VESSEL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LOCKGS COMMERCIAL	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS) (NAV, OPM, ETC)		
MISSISSIPPI RIVER														
LOCK & DAM 15 AUXILIARY 1	XXX													
UPBOUND STATISTICS	86	101	38	225	60	61	121	122	49	2	173		91	
DOWNBOUND STATISTICS	82	168	51	301	78	44	122	133	88	1	222		59	
TOTALS	168	269	89	526	138	105	243	235	137	3	395		150	
LOCK & DAM 16	XXX													
UPBOUND STATISTICS	344	26	95	465	1698	1148	2846	563	24	21	608		1752	
DOWNBOUND STATISTICS	448	44	44	536	360	3921	4281	731	47	12	790		5524	
TOTALS	792	70	139	1001	2058	5069	7127	1294	71	33	1398		7276	
LOCK & DAM 17	XXX													
UPBOUND STATISTICS	304	14	56	374	1703	1169	2872	503	18	24	545		1783	
DOWNBOUND STATISTICS	399	41	10	450	289	4098	4387	683	61	14	758		5765	
TOTALS	703	55	66	824	1992	5267	7259	1186	79	38	1303		7549	
LOCK & DAM 18	XXX													
UPBOUND STATISTICS	307	29	68	404	1826	1180	3006	528	34	23	585		1809	
DOWNBOUND STATISTICS	406	52	17	475	278	4288	4566	700	68	16	784		6033	
TOTALS	713	81	85	879	2104	5468	7572	1228	102	39	1369		7842	
LOCK & DAM 19	XXX													
UPBOUND STATISTICS	303	9	84	396	2041	1235	3296	340	7	10	357		1931	
DOWNBOUND STATISTICS	409	39	36	484	268	4691	4959	418	24	9	451		6592	
TOTALS	712	48	120	880	2309	5946	8255	758	31	19	808		6523	
LOCK & DAM 19 AUXILIARY 1	NO DATA RECORDED FOR THIS LOCK													
LOCK & DAM 20	XXX													
UPBOUND STATISTICS	322	11	85	418	2173	1232	3405	585	9	12	606		1894	
DOWNBOUND STATISTICS	418	35	47	500	258	4819	5077	773	41	13	827		6776	
TOTALS	740	46	132	918	2431	6051	8482	1358	50	25	1433		8671	
LOCK & DAM 21	XXX													
UPBOUND STATISTICS	332	15	74	421	2212	1237	3449	586	14	11	611		1933	
DOWNBOUND STATISTICS	438	45	34	517	307	4872	5179	798	44	11	853		6858	
TOTALS	770	60	108	938	2519	6109	8628	1384	58	22	1464		8791	

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL						MONTHS REPORTED							
								10/84			11/84			12/84	
RIVER/LOCK NAME		TONS	VESSEL RECRTN	VESSEL OTHER	VESSEL TOTAL	BARCS	BARCS EMPTY	BARCS FULL	BARGES	LOCKS COMMER	LOCKS RECRTN	LOCKS OTHER	LOCKS TOTAL	TONNAGE (NAV, OPN, ETC)	
MISSISSIPPI RIVER															
LOCK & DAM 22		XXX													
UPBOUND STATISTICS		341	20	57	418	2254	1255	3509	584	14	24	622	1948		
DOWNBOUND STATISTICS		457	71	17	545	281	5031	5312	796	52	25	873	7102		
TOTALS		798	91	74	963	2535	6286	8821	1380	66	49	1495	9051		

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED														
			10/84			11/84			12/84								
APPROACH	LOCK PROCESSING TIME			ALL TIMES EXPRESSED IN MINUTES													
	ENTRY	MIN	Avg	MAX	MIN	Avg	MAX	MIN	Avg	MAX	MIN	Avg	MAX	TONS	TIME (TOWS)	DELAY AVG (TOWS)	DELAY MAX (ALL VSSLS)
ILLINOIS																	
THOMAS J O'BRIEN	1	3	39	1	2	24	1	14	47	1	2	25	:	85	1167	2.0	47
LOCKPORT LOCK	1	10	138	1	12	434	6	25	79	1	11	109	:	800	105092	104.6	2015
BRANDON ROAD LOCK & DAM	1	11	110	1	11	409	5	21	75	1	11	404	:	875	160843	158.3	6796
DRESDEN ISLAND LOCK & DAM	1	9	416	1	9	342	2	16	429	1	12	70	:	511	41391	46.8	983
MARSIELLES LOCK & DAM	1	10	125	1	9	65	2	19	395	1	15	73	:	551	83828	96.6	1440
STARVED ROCK LOCK & DAM	1	7	125	1	9	63	1	15	50	1	13	89	:	495	87274	95.8	1745
PEORIA LOCK & DAM	1	7	121	1	10	39	1	9	51	1	16	69	:	954	249165	249.9	3896
LAGRANGE LOCK & DAM	1	8	121	1	9	64	1	6	30	1	17	94	:	858	114676	118.6	1877
MISSISSIPPI RIVER																	
LOCK & DAM 11	1	8	68	1	7	37	2	9	70	1	13	125	:	206	17390	41.7	1040
LOCK & DAM 12	1	10	73	1	7	49	1	7	70	1	14	82	:	219	24977	54.3	670
LOCK & DAM 13	1	6	50	1	7	31	4	8	37	1	14	143	:	189	15177	32.7	1090
LOCK & DAM 14	1	7	100	1	7	67	3	8	68	1	14	91	:	399	53974	79.0	905
LOCK & DAM 14 AUXILIARY 1	NO DATA RECORDED FOR THIS LOCK																
LOCK & DAM 15	1	10	164	1	8	214	1	10	55	1	16	160	:	354	41442	62.0	405
LOCK & DAM 15 AUXILIARY 1	1	3	25	1	2	21	3	10	177	1	2	17	:	31	340	2.0	25

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED															
			10/84			11/84			12/84									
ALL TIMES EXPRESSED IN MINUTES																		
			LOCK	PROCESSING	TIME	:	DELAYED	DELAY	DELAY	DELAY								
			APPROACH	ENTRY	CHAMBER	EXIT	: TONS	TIME	Avg	Max	(TONS)	(TONS)	(ALL VSSLS)					
			MIN	Avg	MAX	:	MIN	Avg	MAX	:	MIN	Avg	Max					
MISSISSIPPI RIVER																		
LOCK & DAM 16			1	11	445	1	8	428	1	9	81	1	17	415 :	531	66506	84.0	775
LOCK & DAM 17			1	11	113	1	8	125	2	9	454	1	15	110 :	462	54718	77.8	1535
LOCK & DAM 18			1	10	603	1	9	134	1	7	82	1	17	855 :	448	60121	84.3	1804
LOCK & DAM 19			1	20	117	1	8	43	2	17	693	1	11	763 :	391	38147	53.6	1440
LOCK & DAM 19 AUXILIARY 1	NO DATA RECORDED FOR THIS LOCK																	
LOCK & DAM 20			1	7	75	1	9	405	2	6	52	1	17	144 :	457	60045	81.1	530
LOCK & DAM 21			1	10	77	1	9	68	2	6	49	1	17	87 :	490	70673	91.8	900
LOCK & DAM 22			1	13	155	1	9	38	1	6	25	1	18	107 :	590	159706	200.1	46520

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC F5	DISTRICT NAME ST. PAUL	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED 10/84	MONTHS REPORTED 11/84	MONTHS REPORTED 12/84
RIVER	LCODE-LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)		
MISISSIPPI RIVER	1-LOCK & DAM 1 MAIN CHBR 1		0400/0056/11.0		
	1-LOCK & DAM 1 MAIN CHBR 2		0400/0056/11.0		
	2-LOCK & DAM 2		0600/0110/11.0		
	2-LOCK & DAM 2 AUXILIARY 1		0500/0110/11.0		
	3-LOCK & DAM 3		0600/0110/11.0		
	4-LOCK & DAM 4		0600/0110/11.0		
	5-LOCK & DAM 5		0600/0110/11.0		
	6-LOCK & DAM 6		0600/0110/11.0		
	7-LOCK & DAM 7		0600/0110/11.0		
	8-LOCK & DAM 8		0600/0110/11.0		
	9-LOCK & DAM 9		0600/0110/11.0		
	10-LOCK & DAM 10		0600/0110/11.0		
	51-ST ANTHONY FALLS UPPER L & D		0400/0056/11.0		
	52-ST ANTHONY FALLS LOWER L & D		0400/0056/11.0		
	55-LOCK & DAM 5A		0600/0110/11.0		

TABLE 2

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES**

ELOC F5	DISTRICT NAME ST. PAUL	DIVISION NAME NORTH CENTRAL						MONTHS REPORTED					
					10/84			11/84			12/84		
RIVER/LOCK NAME	TONS	VESSEL RECRTN	VESSEL OTHER	VESSEL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LOCKS COMMER	LOCKS RECRTN	LOCKS OTHER	LOCKS TOTAL	TONNAGE (NAV, OPN, ETC)	
MISSISSIPPI RIVER													
LOCK & DAM 1 MAIN CCHR 1		XXX ONLY FIRST AND SECOND MONTHS REPORTED											
UPBOUND STATISTICS	198	125	14	337	159	205	364	214	65	0	279	275	
DOWNBOUND STATISTICS	203	138	9	350	191	186	377	214	68	1	283	274	
TOTALS	401	263	23	687	350	391	741	428	133	1	562	550	
LOCK & DAM 1 MAIN CCHR 2		NO DATA RECORDED FOR THIS LOCK											
LOCK & DAM 2		XXX											
UPBOUND STATISTICS	226	161	28	415	1096	459	1535	299	121	8	428	694	
DOWNBOUND STATISTICS	260	146	9	415	125	2020	2145	370	107	8	485	2889	
TOTALS	486	307	37	830	1221	2479	3700	669	228	16	913	3583	
LOCK & DAM 2 AUXILIARY 1		NO DATA RECORDED FOR THIS LOCK											
LOCK & DAM 3		XXX ONLY FIRST AND SECOND MONTHS REPORTED											
UPBOUND STATISTICS	169	215	28	412	809	479	1288	237	136	48	421	723	
DOWNBOUND STATISTICS	200	267	10	477	123	1724	1847	282	149	50	481	2487	
TOTALS	369	482	38	889	932	2203	3135	519	285	98	902	3211	
LOCK & DAM 4		XXX											
UPBOUND STATISTICS	166	94	24	284	874	480	1354	244	83	8	335	736	
DOWNBOUND STATISTICS	204	109	6	319	102	1909	2011	311	105	16	432	2769	
TOTALS	370	203	30	603	976	2389	3365	555	188	24	767	3505	
LOCK & DAM 5		XXX ONLY FIRST AND SECOND MONTHS REPORTED											
UPBOUND STATISTICS	167	68	21	256	892	473	1365	249	64	17	330	737	
DOWNBOUND STATISTICS	203	80	3	286	90	1910	2000	312	84	26	422	2772	
TOTALS	370	148	24	542	982	2383	3365	561	148	43	752	3509	
LOCK & DAM 6		XXX											
UPBOUND STATISTICS	179	82	14	275	1054	535	1589	262	84	24	370	800	
DOWNBOUND STATISTICS	213	107	3	323	79	2180	2259	320	131	26	477	3156	
TOTALS	392	189	17	598	1133	2715	3949	582	215	50	947	3756	

TABLE 2

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES**

EROC F5	DISTRICT NAME ST. PAUL	DIVISION NAME NORTH CENTRAL						MONTHS REPORTED					
		TONS	VESSEL RECRTRN	VESSEL OTHER	VESSEL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LOCKGS CONMR	LCKGFS RECRTRN	LCKGFS OTHER	LCKGFS TOTAL	TONNAGE (KTONS)
MISSISSIPPI RIVER													
LOCK & DAM 7		XXX											
UPBOUND STATISTICS		178	105	37	320	1056	518	1574	288	99	16	403	784
DOWNBOUND STATISTICS		216	136	18	370	81	2210	2291	338	152	21	511	3176
TOTALS		394	241	55	690	1137	2728	3865	626	251	37	914	3961
LOCK & DAM 8		XXX											
UPBOUND STATISTICS		180	93	20	293	1062	572	1634	264	83	27	374	870
DOWNBOUND STATISTICS		213	113	10	336	87	2288	2375	333	122	31	486	3282
TOTALS		393	206	30	629	1149	2860	4009	597	205	58	860	4153
LOCK & DAM 9		XXX											
UPBOUND STATISTICS		162	107	26	295	805	700	1505	246	82	18	346	1049
DOWNBOUND STATISTICS		209	127	2	338	116	2229	2345	325	113	24	462	3192
TOTALS		371	234	28	633	921	2929	3850	571	195	42	808	4241
LOCK & DAM 10		XXX											
UPBOUND STATISTICS		183	127	31	341	999	706	1705	274	115	52	441	1064
DOWNBOUND STATISTICS		240	165	4	409	100	2543	2643	365	152	62	579	3629
TOTALS		423	292	35	750	1099	3249	4348	639	267	114	1020	4694
ST ANTHONY FALLS UPPER L & D		XXX	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS		123	48	36	207	126	58	184	148	32	0	180	95
DOWNBOUND STATISTICS		129	55	26	210	47	149	196	149	33	0	182	220
TOTALS		252	103	62	417	173	207	380	297	65	0	362	315
ST ANTHONY FALLS LOWER L & D		XXX	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS		198	60	20	278	159	205	364	215	30	0	245	284
DOWNBOUND STATISTICS		205	64	12	281	192	186	378	215	31	0	246	277
TOTALS		403	124	32	559	351	391	742	430	61	0	491	562
LOCK & DAM 5A		XXX	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS		165	68	42	275	886	466	1352	240	49	218	507	714
DOWNBOUND STATISTICS		204	87	21	312	92	1908	2000	286	78	234	598	2753
TOTALS		369	155	63	587	978	2374	3352	526	127	452	1105	3467

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC F5	DISTRICT NAME ST. PAUL	DIVISION NAME NORTH CENTRAL													MONTHS REPORTED				
			APPROACH			LOCK PROCESSING TIME			EXIT			: DELAYED TONS			TIME	DELAY	DELAY		
			MIN	Avg	MAX	MIN	Avg	MAX	MIN	Avg	MAX	(TONS)	(TONS)	(TONS)	(TONS)	(TONS)	(ALL VSSLS)		
MISSISSIPPI RIVER																			
LOCK & DAM 1 MAIN CHBR 1			1	5	44	1	6	24	3	13	56	1	5	20	:	48	1027	2.6	45
LOCK & DAM 1 MAIN CHBR 2			NO DATA RECORDED FOR THIS LOCK																
LOCK & DAM 2			1	8	120	1	7	55	5	9	50	1	10	56	:	196	11399	23.5	270
LOCK & DAM 2 AUXILIARY 1			NO DATA RECORDED FOR THIS LOCK																
LOCK & DAM 3			1	9	108	1	7	55	3	6	55	1	11	76	:	160	9233	25.0	660
LOCK & DAM 4			1	8	65	1	8	29	4	6	18	1	14	69	:	154	8067	21.8	165
LOCK & DAM 5			1	7	83	1	7	25	4	7	33	1	12	66	:	140	6336	17.1	182
LOCK & DAM 6			1	9	79	1	7	30	4	5	26	1	14	111	:	163	11814	30.1	392
LOCK & DAM 7			1	8	92	1	8	99	2	5	16	1	12	59	:	178	13555	34.4	354
LOCK & DAM 8			1	8	67	1	7	101	3	7	56	1	15	54	:	174	11547	29.4	267
LOCK & DAM 9			1	9	80	1	8	28	3	6	16	1	15	82	:	135	10325	27.8	553
LOCK & DAM 10			1	8	110	1	7	69	4	6	39	1	13	71	:	204	27511	65.0	622
ST ANTHONY FALLS UPPER L & D 1			2	35	1	4	27	6	9	20	1	4	55	:	8	384	1.5	150	
ST ANTHONY FALLS LOWER L & D 1			3	22	1	5	21	4	11	24	1	4	29	:	59	1259	3.1	43	
LOCK & DAM 5A			1	7	75	1	5	25	4	6	16	1	9	42	:	173	10426	28.3	351

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC G2	DISTRICT NAME PORTLAND	DIVISION NAME NORTH PACIFIC	MONTHS REPORTED 10/84	11/84	12/84
RIVER	LCODE-LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)		
COLUMBIA RIVER	1-BONNEVILLE LOCK & DAM		0500/0075/15.0		
	2-THE DALLES DAM		0675/0086/15.0		
	3-JOHN DAY LOCK & DAM		0675/0086/15.0		
WILLAMETTE RIVER	11-WILLAMETTE FALLS LOCKS 1 - 4		0210/0040/ 6.5		
	15-WILLAMETTE FALLS GUARD LOCK		0210/0040/ 6.5		

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC G2	DISTRICT NAME PORTLAND	DIVISION NAME NORTH PACIFIC	MONTHS REPORTED											
			10/84			11/84			12/84					
ALL TIMES EXPRESSED IN MINUTES														
			APPROACH	ENTRY	LOCK PROCESSING TIME	CHAMBER	EXIT	:	TOWS	TIME	DELAY	DELAY	DELAY	DELAY
			MIN	Avg	MAX :	MIN	Avg	MAX :	MIN	Avg	MAX :	(TOWS)	(TOWS)	(ALL VESLS)
BONNEVILLE LOCK & DAM			1	7	60	1	6	60	5	23	100	1	4	28 :
THE DALLES DAM			1	5	25	2	6	30	5	22	83	1	5	25 :
JOHN DAY LOCK & DAM			3	5	15	2	6	28	5	24	118	2	5	20 :
WILLAMETTE FALLS LOCKS 1 - 4	1	1	18	1	2	33	10	30	98	1	2	12 :		
WILLAMETTE FALLS GUARD LOCK	1	1	5	1	1	19	1	1	42	1	1	17 :		

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED
63	SEATTLE	NORTH PACIFIC	10/84 11/84 12/84
RIVER	LCODE-LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)
LAKE WASHINGTON SHP CA	1-HIRAM M CHITTENDEN LOCKS		0760/0080/30.0
	1-HIRAM M CHITTENDEN LOCKS AUX1		0150/0028/25.0

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED
G4	WALLA WALLA	NORTH PACIFIC	10/84 11/84 12/84
RIVER	LCODE-LOCK NAME	LEN/HID/DRAFT (FT/FT/FT)	
COLUMBIA RIVER	24-MCNARY LOCK & DAM	0675/0086/14.0	
SNAKE RIVER	1-ICE HARBOR LOCK & DAM	0675/0086/14.0	
	2-LOWER MONUMENTAL LOCK & DAM	0675/0086/14.0	
	3-LITTLE GOOSE LOCK & DAM	0675/0086/14.0	
	4-LOWER GRANITE LOCK & DAM	0675/0086/14.0	

TABLE 2

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES**

EROC G4	DISTRICT NAME WALLA WALLA	DIVISION NAME NORTH PACIFIC				MONTHS REPORTED							
						10/84		11/84		12/84			
RIVER/LOCK NAME	TOWS	VESSEL RECRDN	VESSEL OTHER	VESSEL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LOCKGS COMMER	LOCKGS RECRDN	LOCKGS OTHER	LOCKGS TOTAL	TONNAGE (KTONS) (NAV, DPN, ETC)	
COLUMBIA RIVER													
MARY LOCK & DAM	XXX												
UPBOUND STATISTICS	176	12	5	193	373	255	628	181	7	1	189	417	
DOWNBOUND STATISTICS	173	13	5	191	57	552	609	181	8	2	191	1354	
TOTALS	349	25	10	384	430	807	1237	362	15	3	380	1771	
SNAKE RIVER													
ICE HARBOR LOCK & DAM	XXX												
UPBOUND STATISTICS	163	26	24	213	359	50	409	186	15	5	206	26	
DOWNBOUND STATISTICS	170	31	16	217	4	397	401	186	15	5	206	1011	
TOTALS	333	57	40	430	363	447	810	372	30	10	412	1038	
LOWER MONUMENTAL LOCK & DAM	XXX												
UPBOUND STATISTICS	114	5	3	122	323	49	372	118	2	0	120	27	
DOWNBOUND STATISTICS	116	11	2	129	4	362	366	121	6	0	127	910	
TOTALS	230	16	5	251	327	411	738	239	8	0	247	937	
LITTLE GOOSE LOCK & DAM	XXX												
UPBOUND STATISTICS	113	14	2	129	309	48	357	117	5	1	123	26	
DOWNBOUND STATISTICS	117	20	0	137	5	353	358	121	9	0	130	872	
TOTALS	230	34	2	266	314	401	715	238	14	1	253	899	
LOWER GRANITE LOCK & DAM	XXX												
UPBOUND STATISTICS	104	11	4	119	208	47	255	111	10	4	125	27	
DOWNBOUND STATISTICS	107	13	0	120	8	245	253	111	8	4	123	557	
TOTALS	211	24	4	239	216	292	508	222	18	8	248	584	

TABLE 3

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES**

EROC G4	DISTRICT NAME WALLA WALLA	DIVISION NAME NORTH PACIFIC	MONTHS REPORTED														
			10/84	11/84	12/84												
ALL TIMES EXPRESSED IN MINUTES																	
APPROACH	LOCK PROCESSING TIME	CHAMBER	EXIT	:	DELAYED	DELAY	DELAY	DELAY									
MIN	ENTRY	MIN	EXIT	MIN	TONS	TIME	Avg	Max	(TONS)	(TONS)	(TONS)	(TONS)	(TONS)	(ALL VSSLS)			
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX			
COLUMBIA RIVER																	
MCMARY LOCK & DAM	2	4	21	2	6	28	9	15	40	2	6	19	:	349	1903	5.5	45
SNAKE RIVER																	
ICE HARBOR LOCK & DAM	1	3	14	1	4	20	10	21	53	1	3	12	:	333	2489	7.5	627
LOWER MONUMENTAL LOCK & DAM	2	4	20	1	6	20	17	26	44	1	4	14	:	230	1474	6.4	65
LITTLE GOOSE LOCK & DAM	2	3	20	2	4	28	10	15	34	2	5	17	:	230	1065	4.6	85
LOWER GRANITE LOCK & DAM	1	4	14	2	5	13	9	11	42	2	4	12	:	211	921	4.4	31

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC H1	DISTRICT NAME HUNTINGTON	DIVISION NAME OHIO RIVER	MONTHS REPORTED		
			10/84	11/84	12/84
RIVER	LCODE-LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)		
KANAWHA RIVER	1-WINFIELD LOCKS & DAM MAIN 1		0360/0056/12.0		
	1-WINFIELD LOCKS & DAM MAIN 2		0360/0056/12.0		
	2-MARMET LOCKS & DAM MAIN 1		0360/0056/12.0		
	2-MARMET LOCKS & DAM MAIN 2		0360/0056/12.0		
	3-LONDON LOCKS & DAM MAIN 1		0360/0056/12.0		
	3-LONDON LOCKS & DAM MAIN 2		0360/0056/12.0		
OHIO RIVER	21-BELLEVILLE LOCKS & DAM		1200/0110/12.0		
	21-BELLEVILLE LOCKS & DAM AUX 1		0600/0110/12.0		
	22-RACINE LOCKS & DAM		1200/0110/12.0		
	22-RACINE LOCKS & DAM AUX 1		0600/0110/12.0		
	23-GALLIPOLIS LOCKS & DAM		0600/0110/12.0		
	23-GALLIPOLIS LOCKS & DAM AUX 1		0360/0110/12.0		
	24-GREENUP LOCKS & DAM		1200/0110/12.0		
	24-GREENUP LOCKS & DAM AUX 1		0600/0110/12.0		
	25-CAPT ANT MELDAHL LOCKS & DAM		1200/0110/12.0		
	25-CAPT ANT MELDAHL LK&DAM AUX 1		0600/0110/12.0		
	72-WILLOW ISLAND LOCKS & DAM		1200/0110/12.0		
	72-WILLOW ISLAND LOCKS & DAM AUX		0600/0110/12.0		

TABLE 2

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES**

EROC H1	DISTRICT NAME HUNTINGTON	DIVISION NAME OHIO RIVER						MONTHS REPORTED						
								10/84			11/84			
RIVER/LOCK NAME	TONS	VESSEL RECRDN	VESSEL OTHER	VESSEL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LOCKS CARRIER	LOCKS RECRDN	LOCKS OTHER	LOCKS TOTAL	TONNAGE (NAV, OPN, ETC)		
KANAWHA RIVER														
WINFIELD LOCKS & DAM MAIN 1	XXX													
UPBOUND STATISTICS	330	7	21	358	1228	821	2049	1250	10	10	1270	1280		
DOWNBOUND STATISTICS	333	15	31	379	706	1396	2102	1246	14	14	1274	1528		
TOTALS	663	22	52	737	1934	2217	4151	2496	24	24	2544	2808		
WINFIELD LOCKS & DAM MAIN 2	XXX													
UPBOUND STATISTICS	39	2	1	42	229	36	265	136	6	0	142	48		
DOWNBOUND STATISTICS	32	0	4	36	61	107	168	108	0	3	111	110		
TOTALS	71	2	5	78	290	143	433	244	6	3	253	158		
MARINET LOCKS & DAM MAIN 1	XXX													
UPBOUND STATISTICS	125	6	11	142	555	100	655	428	9	6	443	140		
DOWNBOUND STATISTICS	135	4	11	150	38	659	697	455	9	9	473	760		
TOTALS	260	10	22	292	593	759	1352	883	18	15	916	900		
MARINET LOCKS & DAM MAIN 2	XXX													
UPBOUND STATISTICS	124	6	26	156	394	74	468	335	11	2	348	67		
DOWNBOUND STATISTICS	102	11	34	147	94	262	356	261	15	1	277	285		
TOTALS	226	17	60	303	488	336	824	596	26	3	625	352		
LONDON LOCKS & DAM MAIN 1	XXX													
UPBOUND STATISTICS	61	0	9	70	184	9	193	188	0	5	193	12		
DOWNBOUND STATISTICS	55	0	12	67	5	159	164	170	0	2	172	233		
TOTALS	116	0	21	137	189	168	357	358	0	7	365	245		
LONDON LOCKS & DAM MAIN 2	XXX													
UPBOUND STATISTICS	27	4	5	36	58	0	58	60	7	1	68	0		
DOWNBOUND STATISTICS	27	4	5	36	1	59	60	57	6	1	64	80		
TOTALS	54	8	10	72	59	59	118	117	13	2	132	80		
OHIO RIVER														
BELLEVILLE LOCKS & DAM	XXX													
UPBOUND STATISTICS	354	1	6	361	907	2800	3707	354	0	1	355	4087		
DOWNBOUND STATISTICS	331	2	3	336	1891	1885	3776	331	0	0	331	2925		
TOTALS	685	3	9	697	2798	4685	7483	685	0	1	686	7012		

TABLE 2

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES**

EROC H1	DISTRICT NAME HUNTINGTON	DIVISION NAME OHIO RIVER						MONTHS REPORTED					
								10/84			11/84		
RIVER/LOCK NAME	TONS	VESSEL RECRNT	VESSEL OTHER	VESSEL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LOCKS CONNER	LCKGES RECRNT	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)	
OHIO RIVER													
BELLEVILLE LOCKS & DAM AUX 1													
UPBOUND STATISTICS	39	30	3	72	54	84	138	44	12	6	62	89	
DOWNBOUND STATISTICS	48	34	7	89	116	56	172	57	14	4	75	44	
TOTALS	87	64	10	161	170	140	310	101	26	10	137	134	
RACINE LOCKS & DAM													
UPBOUND STATISTICS	382	0	4	386	1126	2840	3966	384	0	0	384	4157	
DOWNBOUND STATISTICS	370	1	4	375	1917	2204	4121	371	0	0	371	3198	
TOTALS	752	1	8	761	3043	5044	8087	755	0	0	755	7355	
RACINE LOCKS & DAM AUX 1													
UPBOUND STATISTICS	57	22	9	88	164	64	228	68	4	5	77	83	
DOWNBOUND STATISTICS	57	27	12	96	88	122	210	73	9	3	85	108	
TOTALS	114	49	21	184	252	186	438	141	13	8	162	192	
CALLIPOLIS LOCKS & DAM													
UPBOUND STATISTICS	409	0	8	417	890	2817	3707	672	0	3	675	4430	
DOWNBOUND STATISTICS	399	8	4	411	1953	1962	3915	676	0	1	677	2864	
TOTALS	808	8	12	828	2843	4779	7622	1348	0	4	1352	7295	
CALLIPOLIS LOCKS & DAM AUX 1													
UPBOUND STATISTICS	31	18	24	73	39	42	81	56	15	3	74	64	
DOWNBOUND STATISTICS	36	34	35	105	42	34	76	69	25	7	101	32	
TOTALS	67	52	59	178	81	76	157	125	40	10	175	97	
GREENUP LOCKS & DAM													
UPBOUND STATISTICS	523	5	20	548	3084	1787	4871	533	3	2	538	2840	
DOWNBOUND STATISTICS	542	2	20	564	924	4268	5192	551	0	1	552	6492	
TOTALS	1065	7	40	1112	4008	6055	10063	1084	3	3	1090	9332	
GREENUP LOCKS & DAM AUX 1													
UPBOUND STATISTICS	70	197	58	325	102	63	165	125	92	1	218	78	
DOWNBOUND STATISTICS	52	144	62	258	58	50	108	115	73	2	190	73	
TOTALS	122	341	120	583	160	113	273	240	165	3	408	151	

TABLE 2

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES**

EROC H1	DISTRICT NAME HUNTINGTON	DIVISION NAME OHIO RIVER		MONTHS REPORTED											
				10/84				11/84				12/84			
RIVER/LOCK NAME	TONS	VESSEL RECRTN	VESSEL OTHER	VESSEL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LOCKS TOTAL	LOCKS CONMER	LOCKS RECRTN	LOCKS OTHER	LOCKS TOTAL	TONNAGE (KTONS)		
OHIO RIVER															
CAPT ANT MELDAHL LOCKS & DAM XXX															
UPBOUND STATISTICS	483	3	5	491	2854	2121	4975	483	3	0	486	486	3367		
DOWNBOUND STATISTICS	482	2	8	492	984	4290	5274	485	1	0	486	486	6347		
TOTALS	965	5	13	983	3838	6411	10249	968	4	0	972	972	9915		
CAPT ANT MELDAHL LKGDAM AUX 1 XXX															
UPBOUND STATISTICS	38	60	8	106	43	65	106	45	48	1	94	94	93		
DOWNBOUND STATISTICS	44	81	9	134	91	31	122	55	65	1	121	121	39		
TOTALS	82	141	17	240	134	96	230	100	113	2	215	215	133		
WILLOW ISLAND LOCKS & DAM XXX															
UPBOUND STATISTICS	340	1	7	348	908	2581	3489	341	1	0	342	342	3541		
DOWNBOUND STATISTICS	325	3	2	330	1721	1836	3537	325	1	0	326	326	2799		
TOTALS	665	4	9	678	2629	4417	7046	666	2	0	668	668	6340		
WILLOW ISLAND LOCKS & DAM AUX XXX															
UPBOUND STATISTICS	72	29	18	119	55	190	245	92	11	3	106	106	149		
DOWNBOUND STATISTICS	81	21	14	116	178	86	264	100	10	5	115	115	84		
TOTALS	153	50	32	235	233	276	509	192	21	8	221	221	233		

TABLE 3

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES**

EROC H1	DISTRICT NAME HUNTINGTON	DIVISION NAME OHIO RIVER	MONTHS REPORTED														
			10/84				11/84				12/84						
ALL TIMES EXPRESSED IN MINUTES																	
			LOCK PROCESSING TIME				DELAYED : TONS	DELAY TIME	DELAY (TONS)	DELAY (TONS)	DELAY (ALL VSSLs)						
APPROACH	ENTRY	CHAMBER	EXIT				Avg	Max									
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX						
KANAWHA RIVER																	
WINFIELD LOCKS & DAM MAIN 1	1	7	92	1	5	36	5	10	38	1	11	350	:	595	517896	781.1	3900
WINFIELD LOCKS & DAM MAIN 2	1	10	55	1	4	21	5	9	25	2	10	39	:	32	9888	139.3	1945
MARMET LOCKS & DAM MAIN 1	1	11	71	1	5	23	5	8	19	2	9	41	:	16	783	3.0	105
MARMET LOCKS & DAM MAIN 2	1	9	63	1	4	18	5	8	22	2	8	38	:	13	816	3.6	170
LONDON LOCKS & DAM MAIN 1	1	9	54	1	5	63	6	8	18	2	8	27	:	49	11491	99.1	645
LONDON LOCKS & DAM MAIN 2	1	7	45	1	3	12	6	8	19	2	6	20	:	11	1992	36.9	461
OHIO RIVER																	
BELLEVILLE LOCKS & DAM	1	17	50	2	9	30	8	13	38	2	8	27	:	189	7382	10.8	235
BELLEVILLE LOCKS & DAM AUX 1	2	15	46	1	4	23	10	13	35	1	5	23	:	4	74	.9	25
RACINE LOCKS & DAM	1	14	175	1	11	35	8	10	26	1	10	28	:	220	10543	14.0	258
RACINE LOCKS & DAM AUX 1	2	12	33	1	6	16	7	10	25	2	7	20	:	4	128	1.1	61
GALLIPOLIS LOCKS & DAM	1	10	65	1	12	50	5	11	23	2	18	55	:	512	71447	88.4	765
GALLIPOLIS LOCKS & DAM AUX 1	1	7	27	1	5	30	5	11	24	2	6	36	:	5	226	3.4	75
GREENUP LOCKS & DAM	1	14	60	3	9	20	5	11	31	1	9	26	:	432	17970	16.9	200
GREENUP LOCKS & DAM AUX 1	1	9	40	1	4	13	6	10	22	1	5	17	:	13	267	2.2	50
CAPT ANG MELODIAL LOCKS & DAM	1	19	58	1	10	28	7	13	26	1	12	30	:	407	22257	23.1	235

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC H1	DISTRICT NAME HUNTINGTON	DIVISION NAME OHIO RIVER	MONTHS REPORTED														
			10/84			11/84			12/84								
ALL TIMES EXPRESSED IN MINUTES																	
			LOCK PROCESSING TIME			DELAYED	DELAY	DELAY	DELAY								
APPROACH	ENTRY	CHAMBER	EXIT	:	TONS	TIME	Avg	Max		(TONS)	(TONS)	(TONS)	(TONS)	(ALL VSSLS)			
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX						
OHIO RIVER																	
CAPT ANT MELDAHL LK&DAM AUX	1	11	48	1	3	26	6	13	27	1	5	20	:	1	38	.5	38
WILLOW ISLAND LOCKS & DAM	1	17	57	1	8	25	6	13	26	1	9	23	:	176	7259	10.9	119
WILLOW ISLAND LOCKS & DAM AU	2	14	35	1	4	13	7	13	26	1	5	22	:	13	350	2.3	50

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC N2	DISTRICT NAME LOUISVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED 10/84	MONTHS REPORTED 11/84	MONTHS REPORTED 12/84
RIVER	LCODE-LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)		
GREEN/BARREN RIVER	21-LOCK & DAM 1		0600/0084/12.0		
	22-LOCK & DAM 2		0600/0084/12.0		
	23-LOCK & DAM 3		0138/0036/12.0		
OHIO RIVER	41-MARKLAND LOCKS & DAM		1200/0110/12.0		
	41-MARKLAND LOCKS & DAM AUX 1		0600/0110/12.0		
	42-MCALPINE LOCKS & DAM		1200/0110/12.0		
	42-MCALPINE LOCKS & DAM AUX 1		0600/0110/12.0		
	75-CAMMELTON LOCK & DAM		1200/0110/12.0		
	75-CAMMELTON LOCK & DAM AUX		0600/0110/12.0		
	76-NEWBURGH LOCK & DAM		1200/0110/12.0		
	76-NEWBURGH LOCK & DAM AUX 1		0600/0110/12.0		
	77-UNIONTOWN LOCK & DAM		1200/0110/12.0		
	77-UNIONTOWN LOCK & DAM AUX 1		0600/0110/12.0		
	78-SMITHLAND LOCK & DAM		1200/0110/12.0		
	78-SMITHLAND LOCK & DAM AUX 1		1200/0110/12.0		
	52-LOCK & DAM 52		1200/0110/12.0		
	52-LOCK & DAM 52 AUX 1		0600/0110/12.0		

TABLE 2

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES**

TABLE 2

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES**

EROC H2	DISTRICT NAME LOUISVILLE	DIVISION NAME OHIO RIVER						MONTHS REPORTED					
								10/84			11/84		
RIVER/LOCK NAME	TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS CARRIER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)	
OHIO RIVER													
CANNELTON LOCK & DAM	XXX												
UPBOUND STATISTICS	554	4	11	569	2300	3197	5497	556	2	1	559	5052	
DOWNBOUND STATISTICS	553	4	16	573	945	4834	5779	562	1	0	563	6977	
TOTALS	1107	8	27	1142	3245	8031	11276	1118	3	1	1122	12030	
CANNELTON LOCK & DAM AUX	XXX												
UPBOUND STATISTICS	31	26	5	62	66	33	99	36	12	0	48	48	
DOWNBOUND STATISTICS	36	48	6	90	34	73	107	43	22	2	67	98	
TOTALS	67	74	11	152	100	106	206	79	34	2	115	146	
NEWBURGH LOCK & DAM	XXX												
UPBOUND STATISTICS	670	20	28	718	3310	3335	6645	676	6	2	684	5309	
DOWNBOUND STATISTICS	677	8	46	731	1378	5619	6997	692	2	0	694	7993	
TOTALS	1347	28	74	1449	4688	8954	13642	1368	8	2	1378	13302	
NEWBURGH LOCK & DAM AUX 1	XXX												
UPBOUND STATISTICS	109	206	58	373	153	158	311	140	84	3	227	230	
DOWNBOUND STATISTICS	98	254	62	414	174	59	233	134	112	5	251	74	
TOTALS	207	460	120	787	327	217	544	274	196	8	478	305	
UNIONTOWN LOCK & DAM	XXX												
UPBOUND STATISTICS	736	3	11	750	4932	3156	8088	740	2	1	743	5045	
DOWNBOUND STATISTICS	739	2	4	745	1021	7241	8262	741	1	0	742	10926	
TOTALS	1475	5	15	1495	5953	10397	16350	1481	3	1	1485	15971	
UNIONTOWN LOCK & DAM AUX 1	XXX												
UPBOUND STATISTICS	45	145	28	218	82	50	132	63	122	2	187	86	
DOWNBOUND STATISTICS	43	176	25	244	88	27	115	62	149	5	216	48	
TOTALS	88	321	53	462	170	77	247	125	271	7	403	135	
SMITHLAND LOCK & DAM	XXX												
UPBOUND STATISTICS	146	7	9	162	916	408	1324	155	3	0	158	672	
DOWNBOUND STATISTICS	754	22	34	810	917	7183	8100	776	16	2	794	11014	
TOTALS	900	29	43	972	1833	7591	9424	931	19	2	952	11686	

TABLE 2

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES**

EROC H2	DISTRICT NAME LOUISVILLE	DIVISION NAME OHIO RIVER						MONTHS REPORTED					
					10/84			11/84			12/84		
RIVER/LOCK NAME	TONS	VESSEL RECRDN	VESSEL OTHER	VESSEL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LOCKGS CONNER	LOCKGS RECRDN	LOCKGS OTHER	LOCKGS TOTAL	TONNAGE (KTONS) (NAV, OPN, ETC)	
OHIO RIVER													
SMITHLAND LOCK & DAM AUX 1	XXX												
UPBOUND STATISTICS	747	12	26	785	5201	2624	7825	764	10	2	776	4208	
DOWNBOUND STATISTICS	123	13	10	146	238	919	1157	133	10	3	146	1423	
TOTALS	870	25	36	931	5439	3543	8982	897	20	5	922	5631	
LOCK & DAM 52	XXX												
UPBOUND STATISTICS	991	0	121	1112	5684	4427	10111	166	0	872	1038	6936	
DOWNBOUND STATISTICS	1000	1	121	1122	2133	8127	10260	173	0	914	1087	11969	
TOTALS	1991	1	242	2234	7817	12554	20371	339	0	1786	2125	18905	
LOCK & DAM 52 AUX 1	XXX	ONLY FIRST MONTH REPORTED											
UPBOUND STATISTICS	79	6	30	115	122	159	281	106	5	2	113	275	
DOWNBOUND STATISTICS	89	15	20	124	109	217	326	109	12	2	123	346	
TOTALS	168	21	50	239	231	376	607	215	17	4	236	622	

TABLE 3

• PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC H2	DISTRICT NAME LOUISVILLE	DIVISION NAME OHIO RIVER													MONTHS REPORTED		
			10/84			11/84			12/84								
ALL TIMES EXPRESSED IN MINUTES																	
APPROACH	ENTRY	LOCK PROCESSING TIME	CHAMBER	EXIT											DELAY	DELAY	DELAY
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	(TONS)	(TONS)	(ALL VSSLS)
GREEN/BARREN RIVER																	
LOCK & DAM 1	1	5	20	1	3	15	1	7	58	1	4	25	:	88	1758	2.5	70
LOCK & DAM 2	1	5	35	1	3	12	1	10	45	1	4	32	:	43	965	2.1	45
LOCK & DAM 3	NO DATA RECORDED FOR THIS LOCK																
OHIO RIVER																	
MARLLAND LOCKS & DAM	1	21	60	1	8	30	5	13	27	1	9	28	:	528	38501	36.8	627
MARLLAND LOCKS & DAM AUX 1	1	10	60	1	3	13	5	12	41	1	5	15	:	2	43	.7	29
MCALPINE LOCKS & DAM	1	18	84	1	9	53	5	11	40	1	8	50	:	645	38530	31.6	497
MCALPINE LOCKS & DAM AUX 1	NO DATA RECORDED FOR THIS LOCK																
CANNELTON LOCK & DAM	1	23	60	1	8	30	5	10	25	1	8	35	:	596	43912	39.7	700
CANNELTON LOCK & DAM AUX	1	19	60	1	4	30	5	10	25	1	4	20	:	8	196	2.9	61
NEWBURGH LOCK & DAM	1	16	60	1	9	30	5	7	25	1	11	42	:	658	27868	20.7	232
NEWBURGH LOCK & DAM AUX 1	1	10	45	1	4	21	5	7	10	1	5	26	:	27	464	2.2	55
UNIONTOWN LOCK & DAM	1	19	60	1	7	30	5	9	30	1	8	37	:	826	50236	34.1	317
UNIONTOWN LOCK & DAM AUX 1	1	7	50	1	2	25	5	9	16	1	2	24	:	4	67	.8	40
SMITHLAND LOCK & DAM	1	16	60	1	9	30	5	9	37	2	8	55	:	169	5091	5.7	490
SMITHLAND LOCK & DAM AUX 1	1	13	60	1	9	25	5	9	15	1	7	40	:	123	2230	2.6	120

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC H2	DISTRICT NAME LOUISVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED														
			10/84			11/84			12/84								
ALL TIMES EXPRESSED IN MINUTES																	
			LOCK	PROCESSING	TIME				: DELAYED	DELAY	DELAY						
	APPROACH	ENTRY	CHAMBER	EXIT		TOWS	TIME	Avg	MAX								
	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	(TOWS)	(TOWS)	(ALL VSSLs)					
OHIO RIVER																	
LOCK & DAM 52	1	5	60	1	3	53	1	5	391	1	5	57	:	313	67068	33.7	945
LOCK & DAM 52 AUX 1	1	13	100	1	9	58	5	14	40	2	9	58	:	65	3687	21.9	270

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED
H3	NASHVILLE	OHIO RIVER	10/84 11/84 12/84
RIVER	LCODE-LOCK NAME		LEN/HID/DRAFT (FT/FT/FT)
CLINCH RIVER	11-MELTON HILL LOCK		0400/0075/11.0
CUMBERLAND RIVER	21-BARKLEY LOCK		0800/0110/11.0
	22-CHEATHAM LOCK		0800/0110/11.0
	23-CORDELL HULL LOCK		0400/0084/11.0
	24-OLD HICKORY LOCK		0400/0084/11.0
TENNESSEE RIVER	1-KENTUCKY LOCK		0600/0110/11.0
	2-PICKKICK LANDING LOCK		1000/0110/11.0
	2-PICKKICK LANDING LOCK AUX		0600/0110/11.0
	3-WILSON LOCK		0600/0110/11.0
	3-WILSON LOCK AUX		0292/0060/11.0
	4-GEN JOS WHEELER LOCK	AUX1	0600/0110/11.0
	4-GEN JOS WHEELER LK	AUX1	0400/0060/11.0
	5-GUNTERSVILLE LOCK		0600/0110/11.0
	5-GUNTERSVILLE LOCK	AUX 1	0360/0060/11.0
	6-NICKAJAC LOCK		0600/0119/11.0
	7-CHICKAMAUGA LOCK		0360/0060/11.0
	8-HATTS BAR LOCK		0360/0060/11.0
	9-FORT LOUDON LOCK		0360/0060/11.0

TABLE 2

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES**

EROC N3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER						MONTHS REPORTED					
		TONS	VESSEL RECRNT	VESSEL OTHER	VESSEL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LOCKGS CONNER	LCKGES RECRNT	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS) (NAV, DPN, ETC)
CLINCH RIVER													
MELTON HILL LOCK		XXX											
UPBOUND STATISTICS		0	6	0	6	0	0	0	0	6	2	8	0
DOWNBOUND STATISTICS		0	6	0	6	0	0	0	0	6	2	8	0
TOTALS		0	12	0	12	0	0	0	0	12	4	16	0
CUMBERLAND RIVER													
BARKLEY LOCK		XXX											
UPBOUND STATISTICS		64	21	2	87	39	362	401	66	16	1	83	526
DOWNBOUND STATISTICS		111	26	3	140	926	53	979	144	26	1	171	73
TOTALS		175	47	5	227	965	415	1380	210	42	2	254	600
CHEATHAM LOCK		XXX											
UPBOUND STATISTICS		93	19	1	113	22	520	542	99	17	2	118	769
DOWNBOUND STATISTICS		89	25	6	120	511	36	547	100	18	1	119	53
TOTALS		182	44	7	233	533	556	1089	199	35	3	237	822
CORDELL HULL LOCK		XXX											
UPBOUND STATISTICS		9	8	4	21	18	1	19	15	6	0	21	1
DOWNBOUND STATISTICS		10	8	3	21	1	18	19	13	7	0	20	26
TOTALS		19	16	7	42	19	19	38	28	13	0	41	27
OLD HICKORY LOCK		XXX											
UPBOUND STATISTICS		32	79	10	121	8	47	55	45	70	8	123	85
DOWNBOUND STATISTICS		28	89	14	131	42	6	48	46	66	7	119	10
TOTALS		60	168	24	252	50	53	103	91	136	15	242	95
TENNESSEE RIVER													
KENTUCKY LOCK		XXX											
UPBOUND STATISTICS		435	28	32	495	1063	3234	4297	716	33	9	758	4749
DOWNBOUND STATISTICS		381	26	47	454	2480	1265	3745	643	15	7	665	1804
TOTALS		816	54	79	949	3543	4499	8042	1359	48	16	1423	6553

TABLE 2

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES**

EROC H3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER						MONTHS REPORTED					
		TONS	VESSEL RECRTRN	VESSEL OTHER	VESSEL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LOCKGS CARRIER	LCKGES RECRTRN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (NAV, OPN, ETC)
TENNESSEE RIVER													
PICKNICK LANDING LOCK		XXX											
UPBOUND STATISTICS		177	25	13	215	168	1671	1839	231	24	11	266	2405
DOWNBOUND STATISTICS		159	13	15	187	1304	344	1648	208	11	15	234	433
TOTALS		336	38	28	402	1472	2015	3487	439	35	26	500	2839
PICKNICK LANDING LOCK AUX		XXX											
UPBOUND STATISTICS		83	17	2	102	50	747	797	133	17	12	162	1069
DOWNBOUND STATISTICS		95	18	11	124	754	162	916	159	19	7	185	229
TOTALS		178	35	13	226	804	909	1713	292	36	19	347	1298
WILSON LOCK		XXX											
UPBOUND STATISTICS		115	104	54	273	247	790	1037	199	63	10	272	1136
DOWNBOUND STATISTICS		127	105	48	280	560	437	997	212	39	13	264	598
TOTALS		242	209	102	553	807	1227	2034	411	102	23	536	1734
WILSON LOCK AUX		NO DATA RECORDED FOR THIS LOCK											
GEN JOS WHEELER LOCK		XXX											
UPBOUND STATISTICS		111	22	3	136	238	782	1040	174	23	6	203	1122
DOWNBOUND STATISTICS		105	22	7	134	541	406	947	165	18	6	189	541
TOTALS		216	44	10	270	799	1188	1987	339	41	12	392	1664
GEN JOS WHEELER LK	AUX1	XXX											
UPBOUND STATISTICS		1	71	1	73	1	0	1	3	51	2	56	1
DOWNBOUND STATISTICS		0	80	2	82	0	0	0	3	54	2	59	0
TOTALS		1	151	3	155	1	0	1	6	105	4	115	2
GUNTERSVILLE LOCK		XXX											
UPBOUND STATISTICS		121	54	2	177	334	634	968	174	47	2	223	904
DOWNBOUND STATISTICS		119	51	7	177	457	456	913	163	37	5	205	599
TOTALS		240	105	9	354	791	1090	1881	337	84	7	428	1503
GUNTERSVILLE LOCK	AUX 1	XXX											
UPBOUND STATISTICS		0	88	0	88	0	0	0	2	67	0	69	0
DOWNBOUND STATISTICS		0	79	2	81	0	0	0	2	66	0	68	0
TOTALS		0	167	2	169	0	0	0	4	133	0	137	0

TABLE 2

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES**

EROC H3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER						MONTHS REPORTED						
					10/84			11/84			12/84			
RIVER/LOCK NAME		TONS	VESSEL RECRTRN	VESSEL OTHER	VESSEL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTRN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS) (NAV, DPN, ETC)	
TENNESSEE RIVER														
NICKAJAC LOCK														
UPBOUND STATISTICS		147	102	5	254	422	653	1075	187	71	3	261	863	
DOWNBOUND STATISTICS		147	105	8	260	544	510	1054	188	66	2	256	688	
TOTALS		294	207	13	514	966	1163	2129	375	137	5	517	1552	
CHICKAMAUGA LOCK														
UPBOUND STATISTICS		62	387	4	453	61	226	287	133	300	10	443	314	
DOWNBOUND STATISTICS		58	398	11	467	185	113	298	143	296	13	452	153	
TOTALS		120	785	15	920	246	339	585	276	596	23	895	467	
WATTS BAR LOCK														
UPBOUND STATISTICS		40	88	1	129	58	92	150	86	129	4	219	145	
DOWNBOUND STATISTICS		36	92	5	133	54	96	150	89	126	2	217	131	
TOTALS		76	180	6	262	112	188	300	175	255	6	436	276	
FORT LOUDON LOCK														
UPBOUND STATISTICS		29	74	6	109	16	54	70	52	80	4	136	92	
DOWNBOUND STATISTICS		28	73	9	110	36	32	68	51	82	4	137	41	
TOTALS		57	147	15	219	52	86	138	103	162	8	273	133	

TABLE 3

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES**

EROC H3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED											
			10/84			11/84			12/84					
ALL TIMES EXPRESSED IN MINUTES														
			APPROACH	ENTRY	LOCK PROCESSING TIME	CHAMBER	EXIT	:	DELAYED : TONS	DELAY TIME :	DELAY (TONS)	Avg	MAX	DELAY (ALL VSSLs)
			MIN : AVG	MIN : AVG	MIN : AVG	MIN : AVG	MIN : AVG	:	(TONS)	(TONS)	(TONS)			
CLINCH RIVER														
MELTON HILL LOCK			2 8 20	2 2 3	7 14 20	1 2 6	1 2 6	:	0 0	0 0	.0 .0			
CUMBERLAND RIVER														
BARKLEY LOCK			1 14 110	1 10 75	9 15 28	1 9 35	1 9 35	:	13 568	3.2 98				
CHEATHAM LOCK			1 9 31	1 10 37	9 17 63	1 9 54	1 9 54	:	29 8433	46.3 920				
CORDELL HULL LOCK			2 4 13	1 4 16	6 16 30	1 5 17	1 5 17	:	0 0	.0 .0				
OLD HICKORY LOCK			1 3 26	1 4 22	12 16 31	2 4 21	2 4 21	:	3 166	2.8 102				
TENNESSEE RIVER														
KENTUCKY LOCK			1 9 99	1 13 111	6 18 57	1 18 73	1 18 73	:	643 167151	204.8 996				
PICKWICK LANDING LOCK			1 12 90	2 14 71	9 24 61	2 18 102	2 18 102	:	133 16578	49.3 761				
PICKWICK LANDING LOCK AUX			1 10 139	3 11 69	9 17 47	1 17 81	1 17 81	:	86 12045	67.7 546				
WILSON LOCK			1 10 72	2 13 75	8 22 45	1 14 52	1 14 52	:	74 10971	45.3 726				
WILSON LOCK AUX			NO DATA RECORDED FOR THIS LOCK											
GEN JOS WHEELER LOCK			1 13 103	2 13 42	9 14 59	3 18 72	3 18 72	:	44 3474	16.1 314				
GEN JOS WHEELER LK	AUX	1	8 19	2 4 11	6 12 22	1 4 11	1 4 11	:	0 0	.0 .0				
GUNTERSVILLE LOCK			1 11 53	1 12 38	10 15 65	1 15 57	1 15 57	:	46 3828	16.0 308				
GUNTERSVILLE LOCK	AUX	1	5 24	1 3 14	9 14 23	1 3 7	1 3 7	:	0 0	.0 .0				
NICKAJAC LOCK			1 9 46	2 10 32	6 14 23	1 12 60	1 12 60	:	67 3362	11.4 159				

TABLE 3

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES**

EROC H3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED 10/84	MONTHS REPORTED 11/84	MONTHS REPORTED 12/84
ALL TIMES EXPRESSED IN MINUTES					
		LOCK PROCESSING TIME			
	APPROACH	ENTRY CHAMBER	EXIT	: DELAYED TONS	DELAY AVG
	MIN AVG MAX : MIN AVG MAX : MIN AVG MAX : MIN AVG MAX :	MIN AVG MAX : MIN AVG MAX : MIN AVG MAX :		(TONS) (TONS)	MAX (ALL VSSLs)
TENNESSEE RIVER					
CHICKAMAUGA LOCK	1 4 55	1 5 38	6 11 25	1 6 55 :	35 4910 40.9 551
MATTS BAR LOCK	1 6 48	1 5 50	6 16 137	1 8 121 :	10 1726 22.7 468
FORT LOUDON LOCK	1 10 65	1 4 26	9 20 36	1 8 54 :	4 192 3.4 345

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC #4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED 10/84	MONTHS REPORTED 11/84	MONTHS REPORTED 12/84
RIVER	L/CODE-LOCK NAME		LEN/HID/DRAFT (FT/FT/FT)		
ALLEGHENY RIVER	42-LOCK & DAM 2		0360/0056/13.0		
	43-LOCK & DAM 3		0360/0056/13.0		
	44-LOCK & DAM 4		0360/0056/13.0		
	45-LOCK & DAM 5		0360/0056/13.0		
	46-LOCK & DAM 6		0360/0056/13.0		
	47-LOCK & DAM 7		0360/0056/13.0		
	48-LOCK & DAM 8		0360/0056/13.0		
	49-LOCK & DAM 9		0360/0056/13.0		
MONONGAHELA RIVER	22-LOCK & DAM 2		0720/0110/13.0		
	22-LOCK & DAM 2 AUX 1		0360/0056/13.0		
	23-LOCK & DAM 3		0720/0056/13.0		
	23-LOCK & DAM 3 AUXILIARY 1		0360/0056/13.0		
	24-LOCK & DAM 4		0720/0056/13.0		
	24-LOCK & DAM 4 AUXILIARY 1		0360/0056/13.0		
	25-MAXWELL LOCK & DAM		0720/0084/13.0		
	25-MAXWELL LOCK & DAM AUX 1		0720/0084/13.0		
	27-LOCK & DAM 7		0360/0056/13.0		
	28-LOCK & DAM 8		0360/0056/13.0		
	29-MORGANTOWN LOCK & DAM		0600/0084/13.0		
	30-HILDEBRAND LOCK & DAM		0600/0084/13.0		
	31-OPEKISKA LOCK & DAM		0600/0084/13.0		
OHIO RIVER	1-EMBOWORTH LOCK & DAM		0600/0110/13.0		
	1-EMBOWORTH LOCK & DAM AUX 1		0360/0056/13.0		
	2-DASHIELDS LOCK & DAM		0600/0110/13.0		
	2-DASHIELDS LOCK & DAM AUX 1		0360/0056/13.0		
	3-MONTGOMERY LOCK & DAM		0600/0110/13.0		
	3-MONTGOMERY LOCK & DAM AUX 1		0360/0056/13.0		
	4-NEW CUMBERLAND LOCK & DAM		1200/0110/13.0		
	4-NEW CUMBERLAND LK & DAM AUX 1		0600/0110/13.0		
	5-PIKE ISLAND LOCK & DAM		1200/0110/13.0		
	5-PIKE ISLAND LOCK & DAM AUX 1		0600/0110/13.0		
	71-HANNIBAL LOCKS & DAM		1200/0110/13.0		
	71-HANNIBAL LOCKS & DAM AUX 1		0600/0110/13.0		

TABLE 2

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES**

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER						MONTHS REPORTED							
								10/84			11/84				
RIVER/LOCK NAME	TONS	VESSEL RECRTN	VESSEL OTHER	VESSEL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LOCKGS CARRIER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)	(NAV, OPN, ETC)		
ALLEgheny River															
LOCK & DAM 2	XXX														
UPBOUND STATISTICS	253	213	20	486	514	337	851	378	179	5	562	364			
DOWNBOUND STATISTICS	256	213	21	490	346	485	831	381	176	3	560	264			
TOTALS	509	426	41	976	860	822	1682	759	353	8	1122	628			
LOCK & DAM 3	XXX														
UPBOUND STATISTICS	266	80	23	369	526	359	885	413	85	2	500	387			
DOWNBOUND STATISTICS	270	89	19	378	372	483	855	407	90	2	499	259			
TOTALS	536	169	42	747	898	842	1740	820	175	4	999	646			
LOCK & DAM 4	XXX														
UPBOUND STATISTICS	243	94	23	360	828	87	915	346	67	3	416	112			
DOWNBOUND STATISTICS	247	99	20	366	95	818	913	353	70	3	426	402			
TOTALS	490	193	43	726	923	905	1828	699	137	6	842	514			
LOCK & DAM 5	XXX														
UPBOUND STATISTICS	170	69	4	243	766	2	768	206	52	4	262	1			
DOWNBOUND STATISTICS	171	72	3	246	2	764	766	210	46	4	260	324			
TOTALS	341	141	7	489	768	766	1534	416	98	8	522	326			
LOCK & DAM 6	XXX														
UPBOUND STATISTICS	168	41	3	212	729	2	731	203	38	3	244	1			
DOWNBOUND STATISTICS	171	35	2	208	6	732	738	209	34	3	246	311			
TOTALS	339	76	5	420	735	734	1469	412	72	6	490	312			
LOCK & DAM 7	XXX														
UPBOUND STATISTICS	45	40	10	95	83	1	84	53	26	1	80	1			
DOWNBOUND STATISTICS	43	32	11	86	1	84	85	53	20	1	74	36			
TOTALS	88	72	21	181	84	85	169	106	46	2	154	37			
LOCK & DAM 8	XXX														
UPBOUND STATISTICS	93	36	13	144	95	0	95	110	23	0	133	0			
DOWNBOUND STATISTICS	97	36	11	144	1	96	97	110	25	0	135	186			
TOTALS	192	72	24	288	96	96	192	220	48	0	268	186			

TABLE 2

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES**

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER		MONTHS REPORTED									
					10/84			11/84			12/84		
RIVER/LOCK NAME	TONS	VESSEL RECRN	VESSEL OTHER	VESSEL TOTAL	BARCS EMPTY	BARCS FULL	BARGES TOTAL	LOCKGS CARRIER	LCKGES RECRN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (NAV, OPN, ETC)	
ALLEGHENY RIVER													
LOCK & DAM 9	XXX	ONLY FIRST MONTH REPORTED											
UPBOUND STATISTICS	0	19	0	19	0	0	0	5	13	0	18	0	0
DOWNBOUND STATISTICS	0	21	0	21	0	0	0	5	13	0	18	0	0
TOTALS	0	40	0	40	0	0	0	10	26	0	36	0	0
MONONGAHELA RIVER													
LOCK & DAM 2	XXX												
UPBOUND STATISTICS	333	0	15	348	1065	923	1988	377	0	0	377	1141	
DOWNBOUND STATISTICS	349	0	13	362	699	1341	2040	383	0	1	384	1436	
TOTALS	682	0	28	710	1764	2264	4028	760	0	1	761	2578	
LOCK & DAM 2 AUX 1	XXX												
UPBOUND STATISTICS	125	29	61	215	74	121	195	183	25	4	212	86	
DOWNBOUND STATISTICS	111	33	70	214	136	31	167	178	27	3	208	33	
TOTALS	236	62	131	429	210	152	362	361	52	7	420	119	
LOCK & DAM 3	XXX												
UPBOUND STATISTICS	508	0	3	511	2112	448	2560	509	0	0	509	545	
DOWNBOUND STATISTICS	523	0	3	526	310	2272	2582	524	0	0	524	2278	
TOTALS	1031	0	6	1037	2422	2720	5142	1033	0	0	1033	2823	
LOCK & DAM 3 AUXILIARY 1	XXX												
UPBOUND STATISTICS	104	21	72	197	101	41	142	175	18	3	196	46	
DOWNBOUND STATISTICS	79	24	80	183	60	41	101	159	21	3	183	46	
TOTALS	183	45	152	380	161	82	243	334	39	6	379	92	
LOCK & DAM 4	XXX												
UPBOUND STATISTICS	460	0	5	465	2217	343	2560	474	0	2	476	361	
DOWNBOUND STATISTICS	478	0	3	481	224	2334	2558	489	0	1	490	2332	
TOTALS	938	0	8	946	2441	2677	5118	963	0	3	966	2694	

TABLE 2

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES**

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER						MONTHS REPORTED					
								10/84			11/84		
RIVER/LOCK NAME	TONS	VESSEL RECRTN	VESSEL OTHER	VESSEL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (NAV, DPN, ETC)	
MONONGAHELA RIVER													
LOCK & DAM 4 AUXILIARY 1	XXX												
UPBOUND STATISTICS	43	27	33	103	62	7	69	76	20	2	98		6
DOWNBOUND STATISTICS	38	29	31	98	35	25	60	66	27	3	96		25
TOTALS	81	56	64	201	97	32	129	142	47	5	194		31
MAXWELL LOCK & DAM	XXX												
UPBOUND STATISTICS	359	46	8	413	1891	230	2121	368	29	4	401		264
DOWNBOUND STATISTICS	66	23	7	96	37	313	350	73	13	3	89		314
TOTALS	425	69	15	509	1928	543	2471	441	42	7	490		578
MAXWELL LOCK & DAM AUX 1	XXX												
UPBOUND STATISTICS	45	24	0	69	210	38	248	46	8	0	54		40
DOWNBOUND STATISTICS	336	27	3	366	130	1912	2042	339	18	0	357		1896
TOTALS	381	51	3	435	340	1950	2290	385	26	0	411		1936
LOCK & DAM 7	XXX												
UPBOUND STATISTICS	402	7	21	430	1610	256	1866	754	10	7	771		294
DOWNBOUND STATISTICS	414	10	12	436	208	1683	1891	769	14	5	788		1615
TOTALS	816	17	33	866	1818	1939	3757	1523	24	12	1559		1910
LOCK & DAM 8	XXX												
UPBOUND STATISTICS	365	7	9	381	1341	274	1615	652	10	5	667		308
DOWNBOUND STATISTICS	369	10	16	395	233	1433	1666	690	15	5	700		1377
TOTALS	734	17	25	776	1574	1707	3281	1332	25	10	1367		1685
MORGANTOWN LOCK & DAM	XXX												
UPBOUND STATISTICS	48	14	8	70	210	1	211	58	11	1	70		1
DOWNBOUND STATISTICS	49	29	8	86	6	214	220	59	15	1	75		199
TOTALS	97	43	16	156	216	215	431	117	26	2	145		200
HILDEBRAND LOCK & DAM	XXX												
UPBOUND STATISTICS	13	20	7	40	45	1	46	19	18	0	37		1
DOWNBOUND STATISTICS	16	35	3	54	4	45	49	20	23	0	43		48
TOTALS	29	55	10	94	49	46	95	39	41	0	80		50

TABLE 2

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES**

EROC #4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER						MONTHS REPORTED					
								10/84			11/84		
RIVER/LOCK NAME	TONS	VESSEL RECRTRN	VESSEL OTHER	VESSEL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LOCKGS CONNER	LCKGES RECRTRN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (NAV, DPN, ETC)	
MONONGAHELA RIVER													
OPEKISKA LOCK & DAM	XXX												
UPBOUND STATISTICS	1	40	6	47	1	0	1	8	24	1	33		0
DOWNBOUND STATISTICS	6	51	2	59	5	4	9	9	33	0	42		5
TOTALS	7	91	8	106	6	4	10	17	57	1	75		5
OHIO RIVER													
EMSWORTH LOCK & DAM	XXX												
UPBOUND STATISTICS	428	1	9	438	738	1725	2463	488	1	6	495	1992	
DOWNBOUND STATISTICS	431	0	8	439	1426	1095	2521	480	0	3	483	1248	
TOTALS	859	1	17	877	2164	2820	4984	968	1	9	978	3240	
EMSWORTH LOCK & DAM AUX 1	XXX												
UPBOUND STATISTICS	134	47	77	258	81	96	177	223	31	8	262	98	
DOWNBOUND STATISTICS	139	65	99	303	155	43	198	251	51	10	312	42	
TOTALS	273	112	176	561	236	139	375	474	82	18	574	140	
DASHIELDS LOCK & DAM	XXX												
UPBOUND STATISTICS	420	0	11	431	746	2015	2761	491	0	4	495	2282	
DOWNBOUND STATISTICS	412	0	12	424	1649	1121	2770	471	0	3	474	1274	
TOTALS	832	0	23	855	2395	3136	5531	962	0	7	969	3556	
DASHIELDS LOCK & DAM AUX 1	XXX												
UPBOUND STATISTICS	103	55	80	238	65	54	119	180	39	3	222	64	
DOWNBOUND STATISTICS	109	62	98	269	109	38	147	204	46	4	254	35	
TOTALS	212	117	178	507	174	92	266	384	85	7	476	100	
MONTGOMERY LOCK & DAM	XXX												
UPBOUND STATISTICS	320	3	10	333	622	1552	2174	401	1	2	404	1855	
DOWNBOUND STATISTICS	333	2	16	351	1320	904	2224	417	2	2	421	1075	
TOTALS	653	5	26	684	1942	2456	4398	818	3	4	825	2930	

TABLE 2

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES**

EROC #4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER						MONTHS REPORTED						
								10/84			11/84			
RIVER/LOCK NAME	TONS	VESSEL RECRDN	VESSEL OTHER	VESSEL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LOCKGS COMMER	LOCKGS RECRDN	LOCKGS OTHER	LOCKGS TOTAL	TONNAGE (NAV, OPN, ETC)		
OHIO RIVER														
MONTGOMERY LOCK & DAM AUX 1	XXX													
UPBOUND STATISTICS	153	33	83	269	147	424	571	419	40	5	464	514		
DOWNBOUND STATISTICS	137	32	87	256	342	247	589	398	40	5	443	276		
TOTALS	290	65	170	525	489	671	1160	817	80	10	907	790		
NEW CUMBERLAND LOCK & DAM	XXX													
UPBOUND STATISTICS	248	0	11	259	228	2162	2390	249	0	0	249	3211		
DOWNBOUND STATISTICS	232	0	5	237	1666	677	2343	232	0	0	232	885		
TOTALS	480	0	16	496	1894	2839	4733	481	0	0	481	4096		
NEW CUMBERLAND LK & DAM AUX 1	XXX													
UPBOUND STATISTICS	132	35	44	211	163	168	331	177	25	5	207	222		
DOWNBOUND STATISTICS	152	37	37	226	245	161	406	190	27	5	222	168		
TOTALS	294	72	81	437	408	329	737	367	52	10	429	390		
PIKE ISLAND LOCK & DAM	XXX													
UPBOUND STATISTICS	301	1	8	310	335	2867	3202	302	0	0	302	4113		
DOWNBOUND STATISTICS	287	0	4	291	2273	931	3204	288	0	0	288	1253		
TOTALS	588	1	12	601	2608	3798	6406	590	0	0	590	5366		
PIKE ISLAND LOCK & DAM AUX 1	XXX													
UPBOUND STATISTICS	112	25	36	173	167	146	313	150	24	4	178	192		
DOWNBOUND STATISTICS	136	16	24	176	201	194	395	161	14	3	178	211		
TOTALS	248	41	60	349	368	340	708	311	38	7	356	403		
HANNIBAL LOCKS & DAM	XXX													
UPBOUND STATISTICS	301	1	2	304	810	2443	3253	301	1	1	303	3425		
DOWNBOUND STATISTICS	282	0	3	285	1610	1727	3337	282	0	1	283	2402		
TOTALS	583	1	5	589	2420	4170	6590	583	1	2	586	5828		
HANNIBAL LOCKS & DAM AUX 1	XXX													
UPBOUND STATISTICS	51	10	13	74	38	113	151	66	6	11	83	115		
DOWNBOUND STATISTICS	62	13	13	88	90	98	188	79	11	12	102	100		
TOTALS	113	23	26	162	128	211	339	145	17	23	185	216		

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED											
			10/84			11/84			12/84					
ALL TIMES EXPRESSED IN MINUTES														
			APPROACH	ENTRY	LOCK PROCESSING TIME	CHAMBER	EXIT	:	DELAYED TOWS	TIME	DELAY	DELAY		
			MIN	Avg	MAX : MIN	Avg	MAX : MIN	Avg	MAX : MIN	(TOWS)	(TOWS)	Avg	Max	(ALL VSSLS)
ALLEGHENY RIVER														
LOCK & DAM 2			1	5	31	1	4	21	5	7	17	1	6	28 :
LOCK & DAM 3			1	6	50	1	4	23	6	7	10	1	6	71 :
LOCK & DAM 4			1	6	36	1	5	20	6	8	20	1	7	45 :
LOCK & DAM 5			1	4	23	1	4	14	7	8	28	1	5	51 :
LOCK & DAM 6			2	4	15	2	4	5	7	8	10	2	5	15 :
LOCK & DAM 7			2	4	5	2	4	5	8	8	10	2	4	5 :
LOCK & DAM 8			2	4	10	2	4	5	7	7	8	1	4	5 :
LOCK & DAM 9			2	4	6	2	2	3	8	8	10	2	2	3 :
MONONGAHELA RIVER														
LOCK & DAM 2			1	11	49	1	5	34	5	11	37	2	7	39 :
LOCK & DAM 2 AUX 1			1	8	38	1	2	8	5	6	17	1	2	8 :
LOCK & DAM 3			1	11	36	2	6	18	7	10	17	3	6	16 :
LOCK & DAM 3 AUXILIARY 1			1	7	25	1	2	11	5	7	14	1	3	10 :
LOCK & DAM 4			1	11	33	2	6	20	5	9	28	1	7	57 :
LOCK & DAM 4 AUXILIARY 1			1	9	40	1	2	12	7	9	14	1	4	22 :
MAXWELL LOCK & DAM			1	9	26	1	6	20	8	10	43	1	8	19 :

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED															
			10/84			11/84			12/84									
ALL TIMES EXPRESSED IN MINUTES																		
			APPROACH	ENTRY	LOCK PROCESSING TIME	CHAMBER	EXIT	:	DELAYED TONS	DELAY TIME	Avg (TONS)	Delay Avg (Tons)	Delay Max (All VSSLS)					
			MIN	AVG	MAX :	MIN	AVG	MAX :	MIN	AVG	MAX :	(TONS)	(Tons)					
MONONGAHELA RIVER																		
MAXWELL LOCK & DAM AUX 1			1	13	55	1	7	22	5	11	29	2	9	20 :	22	284	.7	39
LOCK & DAM 7			1	6	37	1	4	15	5	5	44	1	9	36 :	327	16175	19.8	499
LOCK & DAM 8			1	6	38	1	4	18	5	6	14	1	9	75 :	200	8050	11.0	425
MORGANTOWN LOCK & DAM			3	5	40	5	5	25	5	10	20	5	5	15 :	0	0	.0	2
HILDEBRAND LOCK & DAM			2	5	25	1	3	10	7	11	20	1	3	10 :	1	61	2.1	61
OPEKISKA LOCK & DAM			2	6	14	1	2	11	5	10	15	1	3	7 :	0	0	.0	20
OHIO RIVER																		
EMSWORTH LOCK & DAM			1	12	44	2	6	25	6	13	31	1	8	45 :	270	12784	14.9	230
EMSWORTH LOCK & DAM AUX 1			1	8	24	2	3	10	5	8	40	2	3	10 :	28	492	1.8	78
DASHIELDS LOCK & DAM			1	14	75	1	8	30	6	11	28	2	11	53 :	312	16640	20.0	410
DASHIELDS LOCK & DAM AUX 1			1	10	35	1	2	16	5	6	15	1	3	38 :	20	333	1.6	69
MONTGOMERY LOCK & DAM			1	10	43	1	9	46	6	14	49	2	12	106 :	278	21109	32.3	800
MONTGOMERY LOCK & DAM AUX 1			1	5	54	1	5	29	5	9	60	1	6	54 :	203	53202	183.5	1810
NEW CUMBERLAND LOCK & DAM			2	22	60	2	7	34	9	15	43	3	13	31 :	77	3008	6.3	104
NEW CUMBERLAND LX & DAM AUX			1	13	51	1	3	13	8	12	24	1	9	34 :	32	538	1.9	39
PIKE ISLAND LOCK & DAM			1	16	60	2	11	27	7	14	26	3	11	24 :	117	3865	6.6	152
PIKE ISLAND LOCK & DAM AUX 1			1	11	49	1	5	42	6	13	25	2	8	33 :	12	221	.9	61

TABLE 3

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES**

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED 10/84	MONTHS REPORTED 11/84	MONTHS REPORTED 12/84
ALL TIMES EXPRESSED IN MINUTES					
		LOCK PROCESSING TIME			
	APPROACH	ENTRY	CHAMBER	EXIT	: DELAYED DELAY DELAY DELAY
	MIN AVG MAX : MIN AVG MAX : MIN AVG MAX : MIN AVG MAX :	MIN AVG MAX : MIN AVG MAX : MIN AVG MAX : MIN AVG MAX :	MIN AVG MAX : MIN AVG MAX : MIN AVG MAX :	TOMS TIME AVG MAX	(TOMS) (TOMS) (ALL VSSLs)
OHIO RIVER					
HANNIBAL LOCKS & DAM	1 16 50	2 11 32	5 15 35	3 11 54 :	128 4601 7.9 117
HANNIBAL LOCKS & DAM AUX 1	1 13 43	1 5 15	5 14 26	3 9 20 :	5 90 .8 39

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC K3	DISTRICT NAME JACKSONVILLE	DIVISION NAME SOUTH ATLANTIC	MONTHS REPORTED 10/84	MONTHS REPORTED 11/84	MONTHS REPORTED 12/84
RIVER	LCODE-LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)		
CROSS FLA BRG CNL	11-HENRY HOLLAND BUCKMAN LOCK		0600/0084/15.0		
	12-EUREKA LOCK		0600/0084/15.0		
	13-INGLIS LOCK		0600/0084/15.0		
CANAVERAL HARBOR	21-CANAVERAL LOCK		0600/0090/15.0		
OKEECHOBEE WATERWAY	1-ST LUCIE LOCK & DAM		0250/0050/14.0		
	2-MOORE HAVEN LOCK		0250/0050/11.0		
	3-ORTONA LOCK & DAM		0250/0050/12.0		
	4-W P FRANKLIN LCK & CTRL STRCT		0400/0056/14.0		
	5-PORT MAYACA LOCK		0400/0056/14.0		
OKLAHOMA RIVER	31-MOSS BLUFF LOCK & DAM		0156/0030/XXXX		

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC K5	DISTRICT NAME MOBILE	DIVISION NAME SOUTH ATLANTIC	MONTHS REPORTED
			10/84 11/84 12/84
RIVER		LOCK/LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
ALABAMA-COOSA RIVERS		11-CLAIBORNE LOCK & DAM	0600/0084/12.0
		12-MILLERS FERRY LOCK & DAM	0600/0084/12.0
		13-JONES BLUFF LOCK & DAM	0600/0084/12.0
APLCH/CHTC/FLNT RI		21-JIM WOODRUFF LOCK & DAM	0450/0082/12.0
		22-GEORGE W ANDREWS LOCK & DAM	0450/0082/12.0
		23-WALTER F GEORGE LOCK & DAM	0450/0082/12.0
BLKWAR/TOMBIGBEE RI		1-COFFEEVILLE LOCK	0600/0110/12.0
		2-DEMOPOLIS LOCK & DAM	0600/0110/12.0
		3-WARRIOR LOCK & DAM	0600/0110/12.0
		4-WILLIAM BACON OLIVER LK & DM	0460/0095/12.0
		5-HOLT LOCK & DAM	0600/0110/12.0
		6-JOHN HOLLIS BANKHEAD LK & DM	0600/0110/12.0
PEARL RIVER		31-LOCK 1	0310/0065/ 9.0
		32-LOCK 2	0310/0065/ 9.0
		33-LOCK 3	0310/0065/ 9.0
TENN TOMBIGBEE WATERWAY		41-GAINESVILLE LOCK & DAM	0600/0110/12.0
		42-ALICEVILLE LOCK & DAM	0600/0110/12.0
		43-COLUMBUS LOCK & DAM	0600/0110/12.0
		44-ABERDEEN LOCK & DAM	0600/0110/12.0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC KS	DISTRICT NAME MOBILE	DIVISION NAME SOUTH ATLANTIC		MONTHS REPORTED									
					10/84			11/84			12/84		
RIVER/LOCK NAME	TONS	VESSEL RECRDN	VESSEL OTHER	VESSEL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LOCKGS CARRIER	LCKGES RECRDN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)	
ALABAMA-COOSA RIVERS													
CLAIBORNE LOCK & DAM													
UPBOUND STATISTICS	71	54	2	127	223	17	240	74	56	4	134	23	
DOWNBOUND STATISTICS	68	56	2	126	16	212	228	72	54	3	129	263	
TOTALS	139	110	4	253	239	229	468	146	110	7	263	287	
KILLERS FERRY LOCK & DAM													
UPBOUND STATISTICS	71	5	1	77	208	47	255	74	6	2	82	17	
DOWNBOUND STATISTICS	71	4	5	80	18	221	239	73	5	2	80	271	
TOTALS	142	9	6	157	226	268	494	147	11	4	162	288	
JONES BLUFF LOCK & DAM													
UPBOUND STATISTICS	14	17	0	31	7	12	19	13	3	0	16	15	
DOWNBOUND STATISTICS	14	16	0	30	13	7	20	15	2	0	17	8	
TOTALS	28	33	0	61	20	19	39	28	5	0	33	23	
APLCH/CHTC/FLNT RI													
JIM WOODRUFF LOCK & DAM													
UPBOUND STATISTICS	76	14	6	96	81	53	134	88	10	6	104	83	
DOWNBOUND STATISTICS	77	25	9	111	55	79	134	91	12	8	111	58	
TOTALS	153	39	15	207	136	132	268	179	22	14	215	141	
GEORGE W ANDREWS LOCK & DAM													
UPBOUND STATISTICS	48	30	5	83	55	29	84	49	25	3	77	43	
DOWNBOUND STATISTICS	48	38	4	90	29	61	90	47	29	3	79	49	
TOTALS	96	68	9	173	84	90	174	96	54	6	156	93	
WALTER F GEORGE LOCK & DAM													
UPBOUND STATISTICS	28	23	2	53	49	12	61	33	15	2	50	15	
DOWNBOUND STATISTICS	32	22	0	54	15	50	65	34	16	3	53	34	
TOTALS	60	45	2	107	64	62	126	67	31	5	103	50	

TABLE 2

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES**

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC KS	DISTRICT NAME MOBILE	DIVISION NAME SOUTH ATLANTIC				MONTHS REPORTED							
		TONS	VESSEL RECRTN	VESSEL OTHER	VESSEL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LOCKGS CARRIER	LOCKGS RECRTN	LOCKGS OTHER	LOCKGS TOTAL	TONNAGE (KTOMS) (NAV, OPH, ETC)

PEARL RIVER

LOCK 2 NO DATA RECORDED FOR THIS LOCK

LOCK 3 NO DATA RECORDED FOR THIS LOCK

TENN TOMBIGBEE WATERWAY

GAINESVILLE LOCK & DAM		ONLY FIRST AND SECOND MONTHS REPORTED											
UPBOUND STATISTICS	17	9	1	27	36	12	48	18	4	7	29	15	
DOWNBOUND STATISTICS	17	6	1	24	8	34	42	19	4	10	33	50	
TOTALS	34	15	2	51	44	46	90	37	8	17	62	66	
ALICEVILLE LOCK & DAM		ONLY FIRST AND SECOND MONTHS REPORTED											
UPBOUND STATISTICS	14	28	14	56	22	6	28	32	26	11	69	11	
DOWNBOUND STATISTICS	14	27	7	48	4	26	30	27	28	18	73	41	
TOTALS	28	55	21	104	26	32	58	59	54	29	142	53	
COLUMBUS LOCK & DAM		ONLY FIRST AND SECOND MONTHS REPORTED											
UPBOUND STATISTICS	9	38	8	55	5	10	15	18	32	6	56	11	
DOWNBOUND STATISTICS	9	38	10	57	7	12	19	19	33	5	57	12	
TOTALS	18	76	18	112	12	22	34	37	65	11	113	23	
ABERDEEN LOCK & DAM		ONLY FIRST AND SECOND MONTHS REPORTED											
UPBOUND STATISTICS	0	3	1	4	0	0	0	1	2	1	4	0	
DOWNBOUND STATISTICS	0	3	1	4	0	0	0	1	2	1	4	0	
TOTALS	0	6	2	8	0	0	0	2	4	2	8	0	

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC KS	DISTRICT NAME MOBILE	DIVISION NAME SOUTH ATLANTIC	10/84	MONTHS REPORTED		
				11/84	12/84	
ALL TIMES EXPRESSED IN MINUTES						
				LOCK PROCESSING TIME		
	APPROACH	ENTRY	CHAMBER	EXIT	: TONS	DELAY
	MIN : MIN	AVG : MIN	MAX : MIN	AVG : MIN	MAX : (TONS)	AVG (TONS)
	MIN : MAX	AVG : MAX	MAX : MAX	AVG : MAX	MAX : (TONS)	MAX (ALL VSSLS)
ALABAMA-COOSA RIVERS						
CLAIBORNE LOCK & DAM	1 7 30	1 4 23	6 11 25	1 4 20 :	2 66	.5 45
MILLERS FERRY LOCK & DAM	2 11 30	2 7 20	5 15 31	2 7 20 :	7 245	1.7 145
JONES BLUFF LOCK & DAM	1 3 13	1 3 15	5 17 28	2 4 11 :	2 7	.3 5
APLCH/CHTCCH/FLNT RI						
JIM WOODRUFF LOCK & DAM	2 5 19	2 5 31	7 12 26	2 5 21 :	12 286	1.9 58
GEORGE W ANDREWS LOCK & DAM	1 2 4	1 2 9	12 15 27	1 2 10 :	0 0	.0 0
WALTER F GEORGE LOCK & DAM	1 4 35	1 4 16	5 15 49	1 4 19 :	0 0	.0 0
BLKWAR/TOMBIGBEE RI						
COFFEEVILLE LOCK	1 11 36	1 5 21	5 12 23	1 10 44 :	282 12228	18.1 224
DEMOPOLIS LOCK & DAM	1 12 39	1 4 18	5 14 35	1 11 100 :	264 11815	18.0 190
WARRIOR LOCK & DAM	1 13 50	1 4 25	5 15 33	1 9 49 :	259 12119	17.9 301
WILLIAM BACON OLIVER LK & DM	1 13 68	1 6 58	5 14 30	1 14 75 :	439 46164	72.7 586
HOLT LOCK & DAM	1 12 41	1 7 38	5 19 45	1 9 25 :	193 9431	16.0 357
JOHN HOLLIS BANKHEAD LK & DM	1 12 55	1 7 39	5 14 46	1 8 25 :	142 5808	11.9 151
PEARL RIVER						
LOCK 1	NO DATA RECORDED FOR THIS LOCK					
LOCK 2	NO DATA RECORDED FOR THIS LOCK					
LOCK 3	NO DATA RECORDED FOR THIS LOCK					

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC K5	DISTRICT NAME MOBILE	DIVISION NAME SOUTH ATLANTIC	MONTHS REPORTED																
			10/84			11/84			12/84										
ALL TIMES EXPRESSED IN MINUTES																			
			LOCK PROCESSING TIME			ENTRY	CHAMBER		EXIT	:	TOMS	TIME	Avg	Delay					
	APPROACH		MIN : MIN	AVG : MIN	MAX : MAX	MIN : MIN	AVG : MIN	MAX : MAX	MIN : MIN	AVG : MAX	(TOMS)	(TOMS)	(TOMS)	(ALL VSSLS)					
TENN TOMBIGBEE WATERWAY																			
GAINESVILLE LOCK & DAM			1	9	37	1	5	12	5	13	27	1	7	23	:	2	20	.6	61
ALICEVILLE LOCK & DAM			1	3	31	1	2	17	7	13	35	1	2	14	:	1	19	.7	19
COLUMBUS LOCK & DAM			1	5	46	1	2	25	5	12	43	1	1	15	:	0	0	.0	0
ABERDEEN LOCK & DAM			1	4	22	1	2	12	6	14	28	1	3	15	:	0	0	.0	0

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC K6	DISTRICT NAME SAVANNAH	DIVISION NAME SOUTH ATLANTIC	MONTHS REPORTED 10/84	MONTHS REPORTED 11/84	MONTHS REPORTED 12/84
RIVER SAVANNAH RIVER	LCODE-LOCK NAME 1-NEW SAVANNAH BLUFF LOCK & DAM		LEN/WID/DRAFT (FT/FT/FT) 0360/0056/12.0		

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC K7	DISTRICT NAME WILMINGTON	DIVISION NAME SOUTH ATLANTIC	MONTHS REPORTED 10/84	MONTHS REPORTED 11/84	MONTHS REPORTED 12/84
RIVER CAPE FEAR RIVER	LCODE-LOCK NAME 1-LOCK & DAM 1 2-LOCK & DAM 2 3-WILLIAM D HUSKE LOCK & DAM		LEN/WID/DRAFT (FT/FT/FT) 0200/0040/10.0 0200/0040/10.0 0300/0040/10.0		

TABLE 2

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES**

EROC K7	DISTRICT NAME WILMINGTON	DIVISION NAME SOUTH ATLANTIC		MONTHS REPORTED									
				10/84			11/84			12/84			
RIVER/LOCK NAME	TONS	VESSEL RECRTN	VESSEL OTHER	VESSEL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS) (NAV, DPN, ETC)	
CAPE FEAR RIVER													
LOCK & DAM 1		XXX ONLY FIRST AND THIRD MONTHS REPORTED											
UPBOUND STATISTICS	1	0	0	1	1	0	1	3	0	3	6		0
DOWNBOUND STATISTICS	1	3	0	4	0	1	1	2	1	1	4		0
TOTALS	2	3	0	5	1	1	2	5	1	4	10		0
LOCK & DAM 2		XXX ONLY FIRST MONTH REPORTED											
UPBOUND STATISTICS	1	0	0	1	1	0	1	1	0	0	1		0
DOWNBOUND STATISTICS	1	1	2	4	0	1	1	2	1	0	3		0
TOTALS	2	1	2	5	1	1	2	3	1	0	4		0
WILLIAM O MUSKE LOCK & DAM		XXX ONLY FIRST MONTH REPORTED											
UPBOUND STATISTICS	0	0	0	0	0	0	0	0	0	0	0		0
DOWNBOUND STATISTICS	0	3	0	3	0	0	0	0	1	0	1		0
TOTALS	0	3	0	3	0	0	0	0	1	0	1		0

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC K7	DISTRICT NAME WILMINGTOM	DIVISION NAME SOUTH ATLANTIC	MONTHS REPORTED											
			10/84			11/84			12/84					
ALL TIMES EXPRESSED IN MINUTES														
APPROACH	LOCK PROCESSING TIME	ENTRY	CHAMBER	EXIT	: DELAYED	TIME	AVG	MAX	DELAY	DELAY	MAX	(TOMS)	(TOMS)	(ALL VSSLS)
	MIN AVG MAX	:	MIN AVG MAX	:	MIN AVG MAX	:	MIN AVG MAX	:	(TOMS)	(TOMS)	(TOMS)			
CAPE FEAR RIVER														
LOCK & DAM 1	5 5 5 5 5 5 10 14 15 5 10 35 :								0 0 .0 0					
LOCK & DAM 2	5 5 5 5 5 5 5 11 15 5 6 10 :								0 0 .0 5					
WILLIAM O HUSKE LOCK & DAM	5 5 5 5 5 5 5 5 5 5 5 5 :								0 0 .0 0					

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC N3	DISTRICT NAME GALVESTON	DIVISION NAME SOUTHWESTERN	MONTHS REPORTED											
			10/84			11/84			12/84					
ALL TIMES EXPRESSED IN MINUTES														
			APPROACH	LOCK PROCESSING TIME	ENTRY	CHAMBER	EXIT	:	DELAYED	DELAY	DELAY			
			MIN AVG MAX :	MIN AVG MAX :	MIN AVG MAX :	MIN AVG MAX :	MIN AVG MAX :	TONS	TIME	Avg	Max	(TONS)	(TONS)	(ALL VSSLS)
GULF INTRACOASTAL														
COLORADO RIVER EAST LOCK			1 2 18	1 1 20	1 4 59	1 1 26	1 1 26	:	1651	3267	2.0	60		
COLORADO RIVER WEST LOCK			1 1 30	1 1 13	1 3 58	1 1 30	1 1 30	:	1604	2991	1.9	38		
BRAZOS EAST GATE			1 1 47	1 1 60	1 1 1	1 1 51	1 1 51	:	1949	9600	4.9	545		
BRAZOS WEST GATE			1 1 36	1 1 5	1 1 2	1 1 61	1 1 61	:	1856	5926	3.2	516		

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC M4	DISTRICT NAME LITTLE ROCK	DIVISION NAME SOUTHWESTERN	MONTHS REPORTED 10/84	11/84	12/84
RIVER ARKANSAS RIVER	LCODE-LOCK NAME 1-MORRELL LOCK & DAM 2-LOCK & DAM 2 3-LOCK & DAM 3 4-LOCK & DAM 4 5-LOCK & DAM 5 6-DAVID D TERRY LOCK & DAM 7-MURRAY LOCK & DAM 8-TOAD SUCK FERRY LOCK & DAM 9-LOCK & DAM 9 10-DARDANELLE LOCK & DAM 11-OZARK LOCK & DAM 13-LOCK & DAM 13		LEN/WID/DRAFT (FT/FT/FT)		
	1-MORRELL LOCK & DAM		0600/0110/12.0		
	2-LOCK & DAM 2		0600/0110/12.0		
	3-LOCK & DAM 3		0600/0110/12.0		
	4-LOCK & DAM 4		0600/0110/12.0		
	5-LOCK & DAM 5		0600/0110/12.0		
	6-DAVID D TERRY LOCK & DAM		0600/0110/12.0		
	7-MURRAY LOCK & DAM		0600/0110/12.0		
	8-TOAD SUCK FERRY LOCK & DAM		0600/0110/12.0		
	9-LOCK & DAM 9		0600/0110/12.0		
	10-DARDANELLE LOCK & DAM		0600/0110/12.0		
	11-OZARK LOCK & DAM		0600/0110/12.0		
	13-LOCK & DAM 13		0600/0110/12.0		

TABLE 2

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES**

EROC M4	DISTRICT NAME LITTLE ROCK	DIVISION NAME SOUTHWESTERN						MONTHS REPORTED					
					10/84			11/84			12/84		
RIVER/LOCK NAME	TOMS	VESSEL RECRTN	VESSEL OTHER	VESSEL TOTAL	BARGES EMPTY	BARGES FULL	BARGES TOTAL	LOCKS CONNER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)	
ARKANSAS RIVER													
NORRELL LOCK & DAM	XXX												
UPBOUND STATISTICS	166	8	23	197	573	310	883	174	7	21	202	420	
DOWNBOUND STATISTICS	172	20	20	212	129	801	930	178	17	21	216	1096	
TOTALS	338	28	43	409	702	1111	1813	352	24	42	418	1517	
LOCK & DAM 2	XXX												
UPBOUND STATISTICS	167	9	15	191	573	324	897	181	8	8	197	441	
DOWNBOUND STATISTICS	171	23	13	207	131	797	928	186	18	6	210	1162	
TOTALS	338	32	28	398	704	1121	1825	367	26	14	407	1604	
LOCK & DAM 3	XXX												
UPBOUND STATISTICS	150	15	15	180	525	306	831	163	11	32	206	422	
DOWNBOUND STATISTICS	156	24	13	193	134	759	893	171	22	36	229	1032	
TOTALS	306	39	28	373	659	1065	1724	334	33	68	435	1454	
LOCK & DAM 4	XXX												
UPBOUND STATISTICS	150	12	14	176	523	322	845	160	12	13	185	401	
DOWNBOUND STATISTICS	156	24	8	188	133	754	887	168	23	14	205	1034	
TOTALS	306	36	22	364	656	1076	1732	328	35	27	390	1435	
LOCK & DAM 5	XXX												
UPBOUND STATISTICS	132	23	7	162	415	268	683	141	20	10	171	339	
DOWNBOUND STATISTICS	135	34	8	177	130	572	702	146	33	8	187	987	
TOTALS	267	57	15	339	545	840	1385	287	53	18	358	1326	
DAVID D TERRY LOCK & DAM	XXX												
UPBOUND STATISTICS	135	51	11	197	417	279	696	142	48	7	197	339	
DOWNBOUND STATISTICS	134	59	13	206	128	575	703	148	57	7	212	909	
TOTALS	269	110	24	403	545	854	1399	290	105	14	409	1249	
MURRAY LOCK & DAM	XXX												
UPBOUND STATISTICS	114	60	7	181	389	240	629	123	47	5	175	306	
DOWNBOUND STATISTICS	119	75	4	198	129	531	660	124	64	6	194	903	
TOTALS	233	135	11	379	518	771	1289	247	111	11	369	1210	

TABLE 2

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES**

EROC M	DISTRICT NAME LITTLE ROCK	DIVISION NAME SOUTHWESTERN						MONTHS REPORTED					
		10/84			11/84			12/84					
RIVER/LOCK NAME		TONS RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS CONNR	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS) (NAV, OPN, ETC)	
ARKANSAS RIVER													
TOAD SUCK FERRY LOCK & DAM		XXX											
UPBOUND STATISTICS	110	27	3	140	374	236	610	114	17	10	141	302	
DOWNBOUND STATISTICS	117	33	2	152	130	534	664	121	21	11	153	844	
TOTALS	227	60	5	292	504	770	1274	235	38	21	294	1147	
LOCK & DAM 9		XXX											
UPBOUND STATISTICS	115	36	0	151	398	239	637	117	25	10	152	308	
DOWNBOUND STATISTICS	115	48	4	167	126	527	653	120	34	7	161	833	
TOTALS	230	84	4	318	524	766	1290	237	59	17	313	1141	
DARDANELLE LOCK & DAM		XXX											
UPBOUND STATISTICS	124	27	85	236	396	235	631	131	14	15	160	299	
DOWNBOUND STATISTICS	121	31	7	159	126	519	645	130	19	17	166	816	
TOTALS	245	58	92	395	522	754	1276	261	33	32	326	1115	
OZARK LOCK & DAM		XXX											
UPBOUND STATISTICS	113	15	4	132	393	225	618	118	13	8	139	288	
DOWNBOUND STATISTICS	110	20	4	134	133	510	643	117	18	11	146	806	
TOTALS	223	35	8	266	526	735	1261	235	31	19	285	1095	
LOCK & DAM 13		XXX											
UPBOUND STATISTICS	117	19	2	138	388	228	616	120	15	8	143	285	
DOWNBOUND STATISTICS	115	21	6	142	138	512	650	123	18	9	150	815	
TOTALS	232	40	8	280	526	740	1266	243	33	17	293	1100	

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC M4	DISTRICT NAME LITTLE ROCK	DIVISION NAME SOUTHWESTERN	MONTHS REPORTED													
			10/84			11/84			12/84							
ALL TIMES EXPRESSED IN MINUTES																
			APPROACH	LOCK PROCESSING TIME		ENTRY	CHAMBER		EXIT	:	DELAYED : TONS	DELAY TIME : (TOMS)	DELAY AVG : (TOMS)	DELAY MAX : (ALL VSSLS)		
			MIN AVG MAX	MIN AVG MAX	:	MIN AVG MAX	MIN AVG MAX	:	MIN AVG MAX	:						
ARKANSAS RIVER																
NORRELL LOCK & DAM	2	9	50	1	9	60	1	9	25	1	9	45 :	22	530	1.6	95
LOCK & DAM 2	1	10	50	1	10	32	5	12	32	1	12	52 :	47	1485	4.4	106
LOCK & DAM 3	1	10	40	1	8	40	5	9	27	1	10	45 :	42	1104	3.6	70
LOCK & DAM 4	1	11	46	1	8	29	5	13	135	1	9	45 :	33	1349	4.4	130
LOCK & DAM 5	1	10	45	1	9	38	5	10	29	1	12	54 :	63	1175	4.4	109
DAVID D TERRY LOCK & DAM	1	11	58	1	9	47	5	9	47	1	10	43 :	56	1170	4.3	135
MURRAY LOCK & DAM	1	8	35	1	8	69	5	10	32	1	9	70 :	26	708	3.0	87
TOAD SUCK FERRY LOCK & DAM	1	10	55	1	9	49	5	9	96	1	9	36 :	52	672	3.0	77
LOCK & DAM 9	1	13	100	1	9	81	6	12	32	1	9	39 :	28	617	2.7	103
DARDANELLE LOCK & DAM	1	12	72	1	8	36	5	14	56	1	9	86 :	204	1741	7.1	80
OZARK LOCK & DAM	2	12	55	2	10	30	5	12	30	2	11	25 :	174	1503	6.7	60
LOCK & DAM 13	1	9	45	1	10	43	6	12	38	2	12	47 :	27	866	3.7	116

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC NS	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED
	TULSA	SOUTHWESTERN	10/84 11/84 12/84
RIVER	LCODE-LOCK NAME	LEN/MID/DRAFT (FT/FT/FT)	
ARKANSAS RIVER	21-W D MAYO LOCK & DAM	0600/0110/14.0	
	22-ROBERT S KERR LOCK & DAM & RES	0600/0110/14.0	
	23-MEBBERS FALLS LOCK & DAM	0600/0110/14.0	
	24-CHOUTEAU LOCK & DAM	0600/0110/14.0	
	25-NEW GRAHAM LOCK & DAM	0600/0110/14.0	

TABLE 2

**PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES**

EROC M5	DISTRICT NAME TULSA	DIVISION NAME SOUTHWESTERN						MONTHS REPORTED					
								10/84			11/84		
RIVER/LOCK NAME	TONS	VESSEL RECRTN	VESSEL OTHER	VESSEL TOTAL	BARCS EMPTY	BARCS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)	
ARKANSAS RIVER													
W D MAYO LOCK & DAM	XXX												
UPBOUND STATISTICS	109	44	2	155	375	179	554	113	17	6	136	236	
DOWNBOUND STATISTICS	109	44	11	164	104	492	596	117	17	6	140	794	
TOTALS	218	88	13	319	479	671	1150	230	34	12	276	1031	
ROBERT S KERR LOCK & DAM & RES	XXX												
UPBOUND STATISTICS	109	42	3	154	375	179	554	113	29	7	149	235	
DOWNBOUND STATISTICS	110	47	8	165	106	492	598	119	34	7	160	793	
TOTALS	219	89	11	319	481	671	1152	232	63	14	309	1028	
WEBBERS FALLS LOCK & DAM	XXX												
UPBOUND STATISTICS	98	20	2	120	263	190	443	102	13	10	125	241	
DOWNBOUND STATISTICS	97	22	5	124	104	375	479	104	13	10	127	640	
TOTALS	195	42	7	244	367	555	922	206	26	20	252	882	
CHOUTEAU LOCK & DAM	XXX												
UPBOUND STATISTICS	96	4	5	105	228	143	371	102	2	6	110	186	
DOWNBOUND STATISTICS	92	5	9	106	75	311	386	103	4	7	114	507	
TOTALS	188	9	14	211	303	454	757	205	6	13	224	694	
MONT GREGORY LOCK & DAM	XXX												
UPBOUND STATISTICS	95	8	4	107	225	145	370	100	8	3	111	189	
DOWNBOUND STATISTICS	90	10	8	108	76	295	371	100	10	3	113	484	
TOTALS	185	18	12	215	301	440	741	200	18	6	224	673	

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC NS	DISTRICT NAME TULSA	DIVISION NAME SOUTHWESTERN	MONTHS REPORTED														
			10/84			11/84			12/84								
ALL TIMES EXPRESSED IN MINUTES																	
			LOCK PROCESSING TIME			EXIT			: TONS	TIME	DELAY	DELAY					
	APPROACH	ENTRY	CHAMBER						(TONS)	(TONS)	Avg	Max					
	MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX			(ALL VSSLS)			
ARKANSAS RIVER																	
W D MAYO LOCK & DAM	1	11	44	1	9	32	5	11	25	1	10	75	:	9	248	1.1	55
ROBERT S KERR LOCK & DAM & RE	1	7	22	2	9	42	10	14	30	2	10	42	:	15	441	2.0	61
WEBBERS FALLS LOCK & DAM	2	12	40	1	9	37	10	18	42	2	9	3	:	125	2130	10.9	271
CHOUTEAU LOCK & DAM	1	8	32	1	8	45	5	15	25	2	9	40	:	56	396	2.1	105
NEW GRAHAM LOCK & DAM	1	11	28	2	9	70	5	14	39	2	13	50	:	23	439	2.4	110

Appendix B

Glossary

Draft This is not a physical lock dimension. It is compared with new data before they are added to the central library to ensure that vessel drafts are not recorded improperly.

Tows Only tows with barges are included with this figure. Tows without barges, (light boats) and other commercial vessels are counted as "other vessels."

Other vessels All vessels other than tows with barges and recreational vessels.

Commercial lockages The number of lockages for which the prime mover is a tow, a light boat or another commercial vessel.

Recreational lockages The number of lockages during which there are only recreational vessels using the lock.

Other lockages The number of lockages during which the prime mover is a government vessel, a government contracted vessel (such as a dredge) or an unidentified type of vessel. Also included in this category are navigable and open pass lockages.

Total lockages A lockage includes all lock activity necessary to process a tow and is counted only once when more than one vessel uses the lock. Thus, both cuts of a double cut lockage (e.g. only part of the tow will fit in the lock and it is necessary to process the tow in two pieces) count as a single lockage together and the count increases by only one when two tows are processed during a single lockage.

Processing time Only the times needed to process tows with barges are included in these statistics.

Delayed vessels Number of tows experiencing delay between arrival time and the time the lock is ready to process them.

Average delay Average time of delay for all tows.

Maximum delay Maximum delay time for vessels. This figure may reflect a single, extraordinary circumstance and should be evaluated accordingly.

END

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